Aeneas

Engage in the digital future

SME MEMBERS DIRECTORY

September 2026

FOREWORD

CAROLINE BEDRAN
AENEAS Director General

AENEAS is an Industry Association, established in 2006, whose purpose is to promote Research, Development and Innovation in order to strengthen the competitiveness of the European industry in the field of Electronic Components and Systems.

AENEAS brings together RD&I partners from Large Enterprises, SMEs, Research Institutes and Universities active all along the Electronic Components and Systems (ECS) value chain.

SMEs are an essential part of our innovation ecosystem. They bring new ideas and an entrepreneurial approach to the industrial community. They are the bedrock of the economy.

By participating in collaborative projects in partnership with Large Enterprises, Research Institutes and Universities, they provide specific knowledge and contribute to deliver very innovative and competitive solutions to the market. Together with their partners, they create economic and societal impact well beyond the boundaries of the project.

AENEAS offers a variety of services helping its members to benefit from a dynamic RD&I ecosystem and plays a pivotal role in stimulating a higher involvement of SMEs in collaborative projects. By organizing events and consortium building sessions, AENEAS provides its members with large networking opportunities. By working closely with the European

Commission and the Members States, AENEAS helps to shape the future funding instruments, based on the ECS Strategic Research and Innovation Agenda prepared by Industry. In the two programmes in which AENEAS is currently involved, the new tripartite Key Digital Technologies partnership and the EUREKA Xecs, PENTA and EURIPIDES² Clusters, AENEAS supports its members, and particularly SMEs, to participate and increase their footprint, in projects well adapted to their needs.

In order to improve visibility and advertise for SMEs skills, AENEAS is editing this directory. All SMEs which are members of AENEAS can be part of it, it is a living document which will be regularly updated online on the AENEAS website.

I hope you will find it useful to extend your network and wish you all the best in your RD&I endeavours!

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2HS AG

Created in
2023

Employees
4

Company Location
Schaffhausen,
Switzerland

2HS brings over a decade of collective expertise in emerging 2D materials R&D (graphene), microfabrication, and processing of raw nano materials, and industrial automation expertise. 2HS is a distributor of single-crystalline CVD graphene raw materials, commercialized using their proprietary one-graphene platform. 2HS leverages existing know-how in CVD graphene processing in developing compact 2D material integration systems for their use in low TRL R&D environments across academic & R&D centres.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

2HS is a raw materials provider and a service provider.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

The team has been involved in the following projects:

- GraphOhm – Euramet project focusing on CVD graphene-based quantum Hall metrology.
- Dryhetero – H2020 project focusing on microfabrication of high mobility graphene electronics.

TECHNOLOGICAL EXPERTISES

- Single- & polycrystalline CVD graphene synthesis
- CVD graphene transfer processes & services
- Automated graphene transfer equipment development
- Microfabrication, 2D Material
- Characterization, 2D Material Integration & Processing

MARKETS

- Raw Nanomaterials
- Semiconductor Raw Materials
- 2D Raw Materials
- Chemical Processing Equipment

LOOKING FOR PARTNERS AND EXPERTISES

- Advanced Semiconductor Manufacturing
- Process Integration
- Optoelectronics Component Manufacturers
- System Integrators
- Distributors

MORE INFORMATION

one-graphene.com

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Acktar Ltd.

Created in 1994

Company Location Israel

Employees 65

Acktar is a world technology leader in the development, industrialisation and production of light absorbing Black coatings based on vacuum deposition technologies.

Our coatings are integrated in the most sophisticated systems in space as well as in daily used technology.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Acktar is an equipment manufacturer and a service provider.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Acktar's most recent involvements are "UPHO" in EUREKA collaborative programme with two Germany based partners & "IqClock" from the Horizon 2020 program. Also previously involved in FP7 with projects NEXT-GTL, CARENA and CoMETHy.

TECHNOLOGICAL EXPERTISES

Parts of optical systems, light absorbing tapes, high specific surface area coatings, cold shields & IR detectors parts, emitters, blackbodies, thermal radiators for thermal control system, parts for thermographic cameras, night vision systems, radiation absorbing layers for temperature sensors, heat dissipation coatings, high capacitance anode & cathode foils.

MARKETS

- Optical components,
- Nanotechnology,
- Sensors, detectors, lasers,
- Semiconductors, optoelectronics,
- Automotive

LOOKING FOR PARTNERS AND EXPERTISES

Looking to team-up with companies from a variety of fields for innovative collaboration.

MORE INFORMATION

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ACTIVE TECHNOLOGIES

ACTIVE TECHNOLOGIES

Created in 2003

Employees 13

Company Location Ferrara, Italy

Active Technologies is an SME focused in TEST & MEASUREMENT.

The company mission is to deliver to the market the best signal stimulus solutions like fast pulse generators, arbitrary waveform generators and data pattern generators.

Working on leading technologies the company has strong expertise in analog design (high frequency front-end) and digital design (FPGA design and wide data streaming architecture design).

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Active Technologies is an equipment manufacturer. The equipment can be integrated as components into more complex systems.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Active Technologies already joined several EU and National funded projects:

- FP7 : GOSSAMER, ATHENIS-3D, ESTRELIA, P-SOCRATES
- EUROSTARS: VAMPA!
- ECSEL : TAKEMI5
- KDT JU : HiCONNECTS

TECHNOLOGICAL EXPERTISES

Design of innovative signal generator parts:

- Fast and wide amplitude output amplifiers
- Control fast DAC and ADC component
- FPGA code development
- Software and hardware integration

MARKETS

- Physics and nanotechnology research
- Semiconductor characterization
- RF and wireless communication
- Pulsed Laser Technologies

LOOKING FOR PARTNERS AND EXPERTISES

Large companies that can integrate fast pulse generators and arbitrary waveform generator as component of complex test equipment.

Research laboratories that can benefit of fast stimulus equipment to characterize semiconductor or modulate pulsed laser.

MORE INFORMATION

activetechnologies.it

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Created in 2000

Employees <10

Company Location Recklinghausen, Germany

advICo is an ASIC design house, R&D and EDA service provider for analog, high frequency and broadband designs, sensors, radiation hard circuits etc. using various Silicon BiCMOS and CMOS technologies.

advICo also offers IP such as for circuit blocks, monolithic optical polarization filters for angle sensors or image sensors (POLDI), or radar polarization sensors (TRAPS).

POSITIONING IN THE ELECTRONICS VALUE CHAIN

advICo is a service provider for IC design, circuit and patent IP, and R&D.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

advICo's R&D has been both commercially and publicly funded (FP7, BMBF, DLR, ESA, ZIM,..), e.g. fiber-communication, optical and radar sensors, medical devices, wireless, radhard data converters and DC/DC.

TECHNOLOGICAL EXPERTISES

CMOS, SiGe BiCMOS, analog and RF, wideband linear circuits, data converters, digital filters and pseudorandom generators, modeling of passives (PEEC,FEM), modeling of sensors, optical sensors design, photonic filter design, modeling of radiation effects, EDA tool programming, PDK programming, integrated optical polarization sensors, integrated radar polarization sensors.

MARKETS

- Optoelectronics, Fibercom (for data center, metro, WAN networks, free-space optics), Industrial and automotive sensors (angle, speed, distance, position, etc.), Sensors for home appliances, surveillance etc.,
- Medical devices and implants, RF and Radar, Satellite and nuclear research (radhard design), EDA.

LOOKING FOR PARTNERS AND EXPERTISES

Services: customers with challenging tasks POLDI,

TRAPS: partners for realizing advanced bearingless encoders, integrated motor feedback solutions, advanced image sensors, radhard sensors, automotive sensors

MORE INFORMATION

advico.de

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AFORE
AN AEM COMPANY

Afore Oy

Created in
1995

Employees
35

Company Location
Turku,
Finland

Afore Oy designs and delivers intelligent test solutions for MEMS sensor testing and devices requiring application specific test solutions. We offer systems for device characterisation during development, wafer sort and final test. Sensor test solutions provide physical stimulus like motion, pressure, humidity and gas concentration. Afore operates globally and production is in Finland.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Afore Oy is an equipment supplier and service provider.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Involved in:

- PENTA project ESAIRQ
- ENIAC projects APPLAUSE and EUROPAT-MASIP

TECHNOLOGICAL EXPERTISES

Providing wafer probe and device handling equipment with physical stimulus like motion, pressure and humidity for sensor test and calibration along the device development and production value chain.

MARKETS

- MEMS sensor research and development.
- Wafer sort for MEMS sensors and other devices.
- Final test for MEMS sensors and other devices.

LOOKING FOR PARTNERS AND EXPERTISES

- MEMS development
- MEMS wafer level and final test
- Thermal imaging and photonics devices

MORE INFORMATION

afore.fi

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Agileo Automation

Created in 2010

Employees 16

Company Location Poitiers, France

Agileo Automation provides software and robotics solutions for production equipment.

Agileo has developed A²ECF Framework to realize control software for robotized equipment (cluster tools) ensuring communication with users (GUI) and with factory IT systems (PLM and MES) specifically using SECS/GEM in semi-conductor industry.

A²ECF can be considered as a digital twin of an equipment, being an Industry 4.0 enabler.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Agileo Automation proposes consulting, software product and software services for production equipment manufacturers.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Agileo Automation has participated in 2 collaborative projects:

- **OEDIPUS (EIT Digital)**: as a subgrantee from CEA to work on a use case for Industry 4.0 with Siemens & DFKI.
- **Productive 4.0 (ECSEL)**: 109 partners-19 countries- Agileo works on the assessment on OPC-UA, a standard communication architecture for Industry 4.0 compared to SECS/GEM standards.

TECHNOLOGICAL EXPERTISES

- Semi-conductor automation
- Software engineering
- Software framework
- Interoperability
- Communication standards
- Industry 4.0
- Robotics

MARKETS

Process, test or inspection equipment manufacturers (OEMs) from:

- Semi-conductor, Photovoltaic, MEMS, LED
- Electronics, SMT
- Optoeletronics, Laser
- Aeronautics
- Machining

LOOKING FOR PARTNERS AND EXPERTISES

Equipment manufacturers, Semi-conductor fabs, Advanced manufacturing, MES vendors, Research laboratory and companies with expertise in Industry 4.0, digital twin, interoperability, OPC-UA.

MORE INFORMATION

agileo-automation.com

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AKRONIC – Akron Integrated Circuits P.C.

Created in 2015

Employees 15

Company Location Athens, Greece

Specialized in RF and mmWave IC design, AKRONIC is a fabless semiconductor company providing cutting-edge silicon solutions and design services for wireless silicon integrated transceivers, RADAR sensors and antenna beamforming systems. Our customers are spanning from tier-1 players to stealth-mode start-ups across a range of market sectors, including telecom, automotive, aerospace and IoT.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

AKRONIC is a provider of chip solutions and ASIC design services.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

AKRONIC has been and is active in various RD&I schemes, e.g.:

- **SPIDER:** Computation Systems Based on Hybrid Spin-wave–CMOS Integrated Architectures (Horizon Europe)
- **SARROSI:** Satellite Radio Transmitter on Silicon (Greece supported R&D)
- **EMPHASI:** Enhanced Performance CMOS Phase-locked Loop Synthesizer (Greece supported R&D)

TECHNOLOGICAL EXPERTISES

- RF & mm-Wave radio IC design services, DC to above 100GHz.
- Wireless transceivers, LNA/PA, UDC/DNC, VCO/PLL, ADC/DAC, analog BB, etc.
- Electronic Steering Antennas (ESA), massive MIMO, beamforming chips for 5/6G, SATCOM, and RADAR.

MARKETS

Process, test or inspection equipment manufacturers (OEMs) from:

Telecommunications, SATCOM, RADAR:

- Infrastructure (Small cell, Repeaters),
- CPE (Access Points, Routers, Handhelds etc.),
- Automotive (Infotainment, Autonomous),
- Other (SATCOM, Defense, etc.).

LOOKING FOR PARTNERS AND EXPERTISES

- Telecom system integrators,
- Semiconductor manufacturers,
- Packaging manufactures,
- Antenna providers,
- EDA vendors

MORE INFORMATION

akronic.com

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Albayrak Makine Elektronik Sanayi ve Ticaret A.Ş.

Created in 1984

Employees 64

Company Location Eskişehir, Turkiye

Albayrak is an expert in designing and manufacturing platform screen door systems (PSD) in the railway sector. Albayrak has a plant in Turkey, subsidiary in Belarus. For safety-critical application, Alb has SIL-4 certificate for ALPSD-1000 and SIL-2 certificate for ALDCU-200 door control unit. As both R&D and production team, Albayrak is trying to improve itself and to produce technology-oriented solutions for products that will meet the needs of its customers and project spesific.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Albayrak is a system manufacturer and an application provider.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Albayrak has been and is active in projects within different collaborations:

- Turkey supported R&D: development of ALDCU-200 door control unit, prototype EMU train door, AI based decision support unit for predictive maintenance
- PENTA Project: ECOMAI

TECHNOLOGICAL EXPERTISES

- Platform Screen Door system
- Train door system
- Sliding door system manufacturing process
- Door control unit
- Mechanical design
- Electronics/control/automation design
- Mechanical simulation
- Reliability, availability, maintainability, safety

MARKETS

- Railway vehicles
- Railway transportation
- Door control application
- Sliding door applications
- Mechanical components for railway

LOOKING FOR PARTNERS AND EXPERTISES

- Environmental test systems provider
- Embedded system design
- Equipment part manufacturer
- Simulation/Analysis

MORE INFORMATION

albayrakmakine.com.tr

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Created in 2014

Employees 0

Company Location Viroflay, France

Consulting / support to companies that want to understand more about use of semiconductors and electronics systems.

Support to strategic roadmaps and business development.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Focused on applications of electronic systems and semiconductors in mobility (incl. automotive and aeronautics), health, energy transition.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Albayrak has been and is active in projects within different collaborations:

- Preparation and benchmarking of collaborative projects based on rich experience in ECSEL, ENIAC, EUREKA, French and German projects.
- Support to project management.
- Structuring of project proposals and workplans.
- Check before submission.

TECHNOLOGICAL EXPERTISES

- Electronics components and systems competency.
- Track record in collaborative project ecosystems including AENEAS, EPOSS, EUREKA.
- Marketing, sales and R&D management in Tier 1 and Tier2 companies for semiconductors and automotive applications.

MARKETS

- Automotive / Mobility
- Health
- Agriculture
- Aeronautics
- Semiconductors

MORE INFORMATION

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ALTERIA AUTOMATION

Created in 2017

Employees 5

Company Location Madrid, Spain

ALTERIA AUTOMATION is an engineering company that designs & manufactures advanced embedded edge proprietary Industry 4.0 products (smart sensors & wireless connectivity nodes and gateways) for industrial condition-based predictive maintenance.

We resolve the issues created by collecting data from raw data sensors. Our technology pre-processes data at the source, saving 97-99% on the data payload before reaching the database.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Alteria is an equipment manufacturer and service provider (Systems & Applications).

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Alteria has been & is active in:

- Collaboration with Fraunhofer Institute for Production Technology in Aachen (Predictive Maintenance on Industrial Cutting Machines) No Program Yet.
- PENTA 3 / Euripides2 consortium with Infineon & Fraunhofer (biodegradable smart sensors): PLANtAR
- Spanish supported R&D (CDTI - NEOTEC): Handheld Predictive Maintenance Device

TECHNOLOGICAL EXPERTISES

- Smart Sensors: Vibration, Ultrasound, Temperature, Environmental, Inertial, Voltage, Current...
- Data preprocessing at source (sensor)
- Embedded Egde
- Sensor Fusion / Data Homogenisation
- Real Time / Time Synch
- Wireless Communication (Node & Gateway)

MARKETS

- Industry 4.0
- Industrial IoT
- Predictive Maintenance
- Machinery Condition
- Smart Sensors
- Industrial Wireless Communications

LOOKING FOR PARTNERS AND EXPERTISES

Specific industrial applications for our Smart Sensors:

- Rotary Machinery
- Robotic Applications
- Personnel Safety and Asset tracking
- Smart Composite Fiber optic

MORE INFORMATION

alteriaautomation.com

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ANALOGUE INSIGHT

Analogue Insight

Created in 2024

Company Location London, UK

Employees 17

Analogue Insight is a UK headquartered specialist in analog, mixed-signal, and RF IC design and layout with proven experience on advanced nodes to 2nm GAA. We support Tier-1/2 semiconductor companies with agile, cost-effective design, layout and subsystem services, contributing to innovations in CMOS, photonics, AI, sensors, and high-performance computing platforms.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Centre of Excellence for Analog/mixed-signal IC design and layout for advanced nodes.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

- System companies, fabless startups, and semiconductor leaders.
- Partnerships for co-development of IP and silicon demonstrators.
- Collaborations on 2.5D/3D packaging, photonic-electronic integration, and ultra-high-speed SerDes.
- Exploring joint R&D on next-gen analog front-ends and chiplet interconnects.
- Open to EU-funded projects (Chips JU, Horizon, IPCEI) in advanced packaging, high-performance computing or high-speed communication transceiver chiplets.

TECHNOLOGICAL EXPERTISES

- Customized analog/mixed-signal IPs for integration into SoCs or complex subsystems (e.g. ADC, DAC, PLL, high-speed IO, power delivery)
- SoC micro-architecture design from spec and RTL2GDS, including packaging and test (via trusted partners)
- Chiplet-based system design leveraging internal IPs for cost and performance optimization.
- Advanced PCB design for high power, networking Asics

MARKETS

- Semiconductor IP and SoC development.
- High-speed computing, AI accelerators interfaces, sensors, and edge processing
- Data center, telecommunications, automotive, and aerospace.
- Photonics and chiplet-based architectures.
- Ideal for companies needing advanced design, layout or turnkey subsystem solutions.

LOOKING FOR PARTNERS AND EXPERTISES

Looking for partners in chiplet-based systems, advanced packaging, and SoC integration. Open to collaboration on analog IP, high-speed interfaces, and RF front-ends. Seeking R&D partners for EU projects (Chips JU, IPCEI) and industrial clients needing turnkey RTL2GDS support or subsystem co-development.

MORE INFORMATION

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Aniah

Created in 2019

Employees 35

Company Location Grenoble, France

Taiwan, Hshinchu

Aniah (A Needle In A Haystack) is a startup founded in Grenoble at the end of 2019.

We provide a software solution enabling chip designers and validators to perform electrical rule coverage tests at transistor level. Our approach is based on the promise of 100% detection of errors present at all stages of design, in a time factor around 1000 times faster than existing solutions.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

We intervene during the Design phase, then during Verification until the circuit Tape-out.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Aniah was born from a strong collaboration with different French entities (ENS Lyon, INRIA, CEA LIST).

We also contribute to the European R&D project Eecone (Green electronics).

TECHNOLOGICAL EXPERTISES

Our technical expertise is twofold:

- A solid knowledge of the specific processes and constraints of chip design
- A solid expertise in software and particularly in high performance computing

MARKETS

Our main market is the EDA (Electronic Design Automation) estimated at 13 billion in 2022.

Our current market is made up of 3 subdomains:

- **Companies creating chips** (Design house or service company)
- **Companies producing chips** (foundries)
- **Companies using critical chips** (Aeronautics, railway, automobile, energy, telecom)

LOOKING FOR PARTNERS AND EXPERTISES

Partnerships with Designers or complementary companies in the software sector for Microelectronics interest us.

MORE INFORMATION

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ANTEVERTA-MW b.v.

Created in 2010

Employees 8

Company Location Eindhoven, The Netherlands

Anteverta-mw is pioneer of large signal device characterisation methodologies and systems, and high efficiency/linearity PA design. Anteverta's patented IP allows non-50Ω characterisation at speeds up to 100x faster than traditional systems and is unique in its capability of wideband impedance control for realistic modulated signals. Anteverta offers measurement and modeling device characterisation services with an emphasis on high-speed nonlinear load pull and behavioral modeling.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Anteverta is an RF Test and Measurement equipment provider and a measurement and modelling service provider.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Anteverta has been and is active in several projects:

- CATRENE: EAST
- ECSEL: BEYOND5

TECHNOLOGICAL EXPERTISES

- Load-pull characterisation
- RF and mm-wave measurements
- RF device modelling

MARKETS

RF Test and Measurement

LOOKING FOR PARTNERS AND EXPERTISES

- RF manufacturing
- Mechanical machining

MORE INFORMATION

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GROUPE arcom
Smart building & smart city

ARCOM

Created in
Smart Building since 1996
Smart City since 2008

Employees
45

Company Location
Lyon, France

Arcom designs and manufactures controllers and intelligent systems for comfort and energy management in Smart Building as well as street lighting management for Smart City.

Arcom solutions are designed to manage :

- **HVAC (Heating, Ventilation and Cooling), light and blinds in various building types (offices, hospital, public areas, schools...)**
- **Street lighting (individual or global light management), for all project sizes.**

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Arcom is positioned in equipment manufacturer as well as system provider depending on the requested solution. Products and solutions can be provided under Arcom'sbrand as well as white brand.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Arcom R&D develops internally its solutions and is opened to any collaboration for full or partial innovation depending on the partner need.

TECHNOLOGICAL EXPERTISES

- Electronics
- Embedded system firmwares
- Ethernet, Lon, Bacnet, KNX, etc...
- POE
- Powerline communication
- Radio : BLE, LoRa,...
- Energy management and savings

MARKETS

- Smart Buildings
- HVAC
- Light management
- Blind management
- Building Management Systems
- Street Lighting control
- Smart City
- Parking air ventilation for comfort and safety

LOOKING FOR PARTNERS AND EXPERTISES

Any partner involved in Smart Building or Smart City solutions seeking for synergy on our solutions.

MORE INFORMATION

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Created in
2020

Employees
5

Company Location
Arqkos Limited
Co. Wicklow,
Ireland

ArqKos is an IP centric SME focused on the design and commercialisation of a distributed approach to RF filters and antenna for telecommunications across a range of bands including mmWave. With a rich portfolio of distributed resonators, we cater for high performance, modularity and extremely low-profile devices with a global set of manufacturing partners. We collaborate on design and manufacturing projects in mmWave and terahertz domains for filters and antennas.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

ArqKos is an expert design house and manufacturing provider of RF equipment and architectures.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Arqkos an Irish SME has collaborated on product design and production with customers, academic partners and manufacturers in Ireland, UK, Finland, Japan, Canada and the US.

We are also engaged with the SFI CONNECT research centre.

TECHNOLOGICAL EXPERTISES

- Simulation, design, IP protection and licensing of advanced filters and antennas for 5G and beyond.
- Manufacturing optimisation and subcontract management including dicasting, 3D and PCB printed structures.
- Test, verification and certification of discrete RF/mm-wave components, such as phase shifters and attenuators, RF sensors and MEMS switches

MARKETS

- RF and material science research
- Components and systems of RF/mm-wave filter and antenna components
- Manufacturers and telecommunication equipment suppliers specializing in:

  Filters and antennas, Discrete RF components, wireless communications

LOOKING FOR PARTNERS AND EXPERTISES

- Innovative telecommunication equipment manufacturers and suppliers
- Contract manufacturers, particularly PCB and dicasting experts
- Telecommunication network validation providers.
- RF chain and front-end academic partners including material scientists
- Network and RF propagation simulation experts

MORE INFORMATION

arqkos.com

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Aurora Powertrains Oy

Created in 2017

Employees 5-10

Company Location Rovaniemi, Finland

Aurora Powertrains manufactures eSled – electric snowmobiles and runs eSled guided tours under brand Aurora eMotion together with selected partners. The heart of the eSled is the electric powertrain platform containing the proprietary patent pending battery modules and control units which can be adapted to different applications.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Design and manufacture of battery/vehicle level management/control units and software.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Aurora is participating in a 3-year ECSEL JU project Energy ECS started in June 2021. There's been also several nationally funded development projects.

TECHNOLOGICAL EXPERTISES

- Electric Powertrain design and integration
- Battery Modules
- Battery Control Unit
- Vehicle Charge Control Unit
- Embedded software engineering
- Vehicle control software

MARKETS

- Tourism (eSled for guided tours)
- Consumers (eSled)
- Mobility OEMs in different markets like powersports, off-road and lightweight vehicles

LOOKING FOR PARTNERS AND EXPERTISES

- Electric motor and power electronics manufacturing/design
- EV system integrators
- OEMs / Tier 1s from any mobility sector
- Energy storage solution providers

MORE INFORMATION

aurorapowertrains.com

Matti Autioniemi
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BEYOND VISION, S.A.

Created in 2013

Company Location Lisbon

Employees 40

Founded in 2013 for research purposes, Beyond Vision is currently a registered UAV manufacturer with a strong focus on continuous monitoring and artificial intelligence applications to enable the development of complex tasks by its UAVs, fully autonomously.

The company has been developing over the years, applications that relate to precision farming, infrastructures inspection, surveillance, and others. Since 2019, it has successfully participated in several European Research Projects and created a well-defined roadmap to transform project prototypes into actual products.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Beyond Vision designs its own Electronics, using third-party chips, submodules and subsystems.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Beyond has been active in several National and European R&D programmes such as: H2020, CELTIC-NEXT, Marie Curie, etc.

The company's main focus are developments related to drones, in the TRL levels 4 to 9.

TECHNOLOGICAL EXPERTISES

The several aspects of drone design: Mechanics/Aeronautics, Electronics, Robotics, SW, including (but not restricted to): microcontrollers programming, applications development, cloud platform, AI, ...

MARKETS

- Drones, civil and military applications, including (but not restricted to): precision farming, infrastructures inspection, last-mile deliveries, surveillance.

LOOKING FOR PARTNERS AND EXPERTISES

- End-users with new use-cases for drones
- Developers of sensors to enrich the drone capabilities

MORE INFORMATION

beyond-vision.com

Dário Pedro (CEO)
dario.pedro@beyond-vision.com

BLUSPECS SL

Created in 2014

Employees < 10

Company Location Spain, UK, Singapore

We support digital transformation with services that range from strategic positioning to technology adoption. Our approach combines analytical skills with creativity and the ability to tap into global networks.

We support clients who want to harness the power of digital technologies for engaging with customers, solving business problems and preparing themselves, their stakeholders and society for the challenges of the future.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

We work across the electronics value chain, supporting clients in their ambitions to grow their technology ecosystems to build better and more sustainable products.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

We lead several RD&I consortia in the fields of IoT, Edge Computing, Cloud, AI, and Quantum, including UNLOCK CEI, EU-IoT, LEADS. We are active members in several key technology ecosystems.

TECHNOLOGICAL EXPERTISES

- IoT
- Cloud to Edge continuum
- Data
- AI
- Quantum
- Skills
- Tech policy and governance

MARKETS

We support sustainability, data and technology adoption, across multiple industries including

- Manufacturing
- Transport & logistics
- Financial services
- Energy
- Infrastructure
- Public sector

LOOKING FOR PARTNERS AND EXPERTISES

We work with technology partners who offer solutions in advanced technologies and end users to help them realise their digital transformation ambitions.

MORE INFORMATION

bluspecs.com

Mariana Drago
mdrago@bluspecs.com

Created in 2016

Employees 11

Company Location Antony, France

CAIRDAC mission is to do the proof of concept, development, regulatory, clinical evaluation, manufacturing and commercialization of implantable communicating medical devices for the diagnostic and/or therapy of chronic diseases.

Such active implantable medical devices have severe constraints for power consumptions, size, longevity, reliability, robustness and resistant to cyberattack.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

CAIRDAC is application oriented.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

CAIRDAC was involved in smart-MEMPHIS H2020 project and is involved EnSO ECSEL project.

TECHNOLOGICAL EXPERTISES

CAIRDAC has an extended expertise and in-house equipment for the development of biocompatible, autonomous and connected medical devices in harsh environment powered by an vibrational energy harvester coupled to a small rechargeable battery.

MARKETS

CAIRDAC is addressing the market of cardiac rhythm management.

LOOKING FOR PARTNERS AND EXPERTISES

- ASIC development
- PCB development
- Assembly
- Energy harvesting
- Accelerometer
- Rechargeable battery
- RF communication
- Embedded software
- Cybersecurity
- Reliability robustness

MORE INFORMATION

cairdac.com

Renzo Dal Molin
renzo.dalmolin@cairdac.com

camea

CAMEA, spol. s r.o.

Created in 1995

Employees 75

Company Location Brno, Czech Republic

CAMEA, spol. s r. o. is the Czech market leader in the development and production of embedded systems for specialized applications in traffic monitoring and industrial quality control. Traffic applications include Weigh-In-Motion, video-based red-light and speed enforcement systems, and traffic monitoring. The industrial applications include mass electronics component manufacturing quality control, inspection of automotive wheels welds or cloth-, bottle-, plastic components inspection. The company is active in the areas of R&D of image/signal processing systems and HW-acceleration.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

CAMEA is processing device/sensor developer and manufacturer as well as system application integrator and service provider.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

CAMEA has been and is active in projects with different collaboration schemes:

- Czech supported R&D: V3C (Visual Competence Center TAČR),
- EU projects focused on computer networks (custom HW support): 6NET, SCAMPI, GEANT2
- PENTA or EUREKA projects: MuSiC
- FP7 or H2020 projects: R3-COP, RECOMP, CRAFTERS, PaPP, R5-COP, ALMARVI, FITOPTIVIS, MegaM@Rt2, Arrowhead Tools, VALU3S, NextPerception

TECHNOLOGICAL EXPERTISES

- Embedded algorithms for signal/image processing and computer vision (embedded signal processing)
- Design and implementation of sensors and signal processing devices (video, radar, ...)
- Hardware-accelerated high-performance computing (using GPU, FPGA, ...)
- Large-scale deployment of image-processing solutions (complex systems for industry/traffic)
- AI for image/signal processing enhancement
- System integration, installation and maintenance

MARKETS

- **Industrial Applications:** Over 1000 video cameras already manufactured and installed in by the company in factories in both, the Czech Republic and Europe/world.
- **Traffic Monitoring:** About 2000 cameras currently in use which are installed in several cities and on highways in the Czech Republic and Europe/world.

LOOKING FOR PARTNERS AND EXPERTISES

- System validation, verification and testing
- Cloud processing (algorithm off-loading) solution provider
- Cutting-edge AI methods for image/signal processing and computer vision
- HF-grade PCB manufacturing and testing for integrated radar modules

MORE INFORMATION

cameatechnology.com

Lukáš Maršík
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CELESTIA TECHNOLOGIES GROUP

Celestia Technologies Group Bv

Created in 2016

Employees 4

Company Location Noordwijk, The Netherlands

CTG BV is a Dutch SME working in the technological innovations of the Aerospace, Telecommunications and Scientific sectors and offering state of the art equipment and systems.

It is also the company holding for Celestia Technologies Group integrating 15 high technology SME companies located in several European countries, and based on innovation, and development of high technology products, as key factors to a steady growth.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

CTG BV is an equipment provider and a system engineering company.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

CTG BV is involved in the following projects:

ECSEL Project ADACORSA. CTG BV develops an aerial unmanned vehicle transponder based on common aviation technologies providing accurate positioning and identification of the platform.

TECHNOLOGICAL EXPERTISES

The main background and expertise of the company includes on-board UAV electronics and datalinks, antenna measurement systems, electromechanical positioners, microelectronics, beamforming technologies, signal processing, ground stations and systems.

MARKETS

- Unmanned Aerial Vehicles (UAVs) and Unmanned Ground Vehicles (UGVs).
- Radiofrequency and Antennas
- Signal Processing
- Antenna Measurement Systems
- Satellite Ground Systems and Stations

LOOKING FOR PARTNERS AND EXPERTISES

- Satellite and/or Teleport Operators
- Cooling and Thermal Analysis
- Structural Analysis
- Additive Manufacturing and 3D printing
- Industry 4.0 and Artificial Intelligence
- Navigation Applications
- Testing & Certification

MORE INFORMATION

celestia-tech.com

José Alonso
jalonso@celestia-tech.com

Created in 2011

Employees 14

Company Location Winnipeg, MB Canada

CEMWorks offers cutting-edge electromagnetic simulation solutions for optimisation of new applications in EDA, enhanced communications, system integration and smart mobility. The innovative approach to EM simulation enables engineers to create and iterate designs in a virtual environment, which helps to reduce project costs and accelerates time to market.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

CEMWorks provides EM simulation software for components, systems and whole applications

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

CEMWorks is involved in confidential RD&I collaborations with global leaders in the semiconductor industry, and with the Government of Canada.

TECHNOLOGICAL EXPERTISES

- Design Automation
- Electromagnetic Simulation
- Modeling of 3D packaging, IC passives, antennas, PCBs, interposers.
- Antenna arrays simulation
- EMC/EMI analysis
- System integration
- Enhanced communications

MARKETS

Companies designing and manufacturing for:

- Semiconductor Industry
- Automotive - OEMs and suppliers
- Aerospace and Defense
- 5G/mmWave/RF
- Flexible electronics
- Machine learning AI

LOOKING FOR PARTNERS AND EXPERTISES

- Innovators with complex or large-scale designs that require validation data
- Semiconductor manufacturers designing for 5G/mmWave/ RF
- Autonomous vehicle technology – component and subsystem design
- System integrators

MORE INFORMATION

cemworks.com

Cielo Gerrie
gerrie@cemworks.com
info@cemworks.com

Centro di Ricerca e Innovazione Tecnologica srl

Created in 2000

Company Location Italy

Employees 14

CRIT is a private consultancy company specialized in research and analysis of technical and scientific information and in the development of research project activities.

CRIT works with a network of manufacturing companies, mainly located in the Emilia-Romagna Region, to foster dialogue among enterprises on problems and solutions regarding relevant technical, organizational and logistic issues, through the exchange of best practices and the organization of specific benchmarking activities.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

CRIT positioning in the Electronics value chain is in the area of applications.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

CRIT activities aim to stimulate and share technical knowledge, establishing networking opportunities among enterprises and other interested actors with the overall objective to study in depth opportunities stemming from new technologies and gain a higher degree of innovation.

CRIT has been participating in numerous H2020 and HORIZON EUROPE projects: IMOCO4.E, INEDIT, ROSSINI, IQONIC, KITT4SME, Z-BRE4K, AMBIANCE, INVEST, IDEATION.

TECHNOLOGICAL EXPERTISES

Through its activities in technological scouting CRIT gained great expertise in different manufacturing and technical areas.

CRIT deals with state-of-the-art analysis (complete picture of a technology or comparison with others), problem solving (of specific technological problems), patent analysis and technical due diligences.

MARKETS

CRIT is a consultancy company supporting businesses in ameliorating their positioning in the market through the search of the best Suppliers, Competencies and Key Players for cooperation; patent analysis; analysis of competitors; and technologies foresight of the most promising or suitable available technologies.

LOOKING FOR PARTNERS AND EXPERTISES

CRIT looks for potential collaboration with enterprises (LE, SMEs, start-up), cluster/associations and research organization to work with in funded projects.

MORE INFORMATION

crit-research.it/en

Giulia

dibari.g@crit-research.it

CISC Semiconductor GmbH

Created in 1999

Employees 45

Company Location
Klu, Grz, Austria
Mountain View, CA, USA

Adding TRUST in a connected world CISC Semiconductor, established in 1999, is an international operating and highly awarded company that provides competitive and innovative products and engineering solutions to increase performance, conformance, interoperability, security and privacy in communication technologies.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

CISC's value chain includes: Systems, Applications and Equipment (Testing).

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

More than 50 joint national and international R&D projects (several hundreds person-years R&D investment) in European programs such as H2020 (FP7), ECSEL, EUREKA ...

TECHNOLOGICAL EXPERTISES

- Wireless communication (BLE/UWB)
- IoT/CPS
- RFID/NFC Design and Test
- International standardisation
- Human Centric Design
- Security and Privacy

MARKETS

- Automotive
- RFID/NFC
- Semiconductors
- Wireless Communication
- Smart Production

LOOKING FOR PARTNERS AND EXPERTISES

- Semiconductor Manufacturer
- Automotive Tier1 and OEMs
- Smart City Service Provider
- Telecommunication Equipment & Consumer Electronics
- RFID/NFC product vendors (tags, chips, systems)
- RFID/NFC users (e.g. automotive, aviation, retails)

MORE INFORMATION

cisc.at

Dr. Markus Pistauer
m.pistauer@cisc.at

Codasip

Created in
2014

Employees
162

Company Location
München,
Germany

Codasip delivers leading-edge RISC-V processor IP and high-level processor design tools, providing IC designers with all the advantages of the RISC-V open ISA, along with the unique ability to customize the processor IP. As a founding member of RISC-V International and a long-term supplier of LLVM and GNU-based processor solutions, Codasip is committed to open standards for embedded and application processors. Formed in 2014 and headquartered in Munich, Germany, Codasip has R&D centers in Europe and sales offices worldwide.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Leading provider of customizable RISC-V processor IP and processor design automation tools (EDA) called Codasip Studio.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

H2020: RISC-V Digital Architecture for the Next Generation of Connected Era.

TECHNOLOGICAL EXPERTISES

Portofolio of fully-customizable RISC-V IP from low- end embedded to mid-end application cores.

EDA tools for processor design and customization (Codasip Studio) generating complete SDK (Profiler, Debugger, Instruction and Cycle accurate simulators, C/C++ Compiler, etc.) and HDK (System C, System Verilog, UVM verification environment, etc).

MARKETS

- Domain-specific accelerators (DSAs)
- IoT devices
- Edge computing
- HPC computing
- Automotive (Functional Safety)
- Cybersecurity

LOOKING FOR PARTNERS AND EXPERTISES

- EDA vendors
- RTOS providers
- Cybersecurity and AI/ML providers and researchers
- Code analysis tools
- Processor, SoC, and system integrators

MORE INFORMATION

codasip.com

contact@codasip.com

consider it
CO-CREATING THE DIGITAL FUTURE

consider it GmbH

Created in
2010

Employees
50

Company Location
Hamburg,
Germany

consider it GmbH (CIT) has been living its passion for ITC for more than 10 years and is enthusiastic about innovations and the sensible use of technology. Together with customers and partners, CIT works on positively shaping our common digital future.

This means: making current technologies meaningful and usable for every company. Since 2020, CIT also supports companies in both applying for and managing public funding.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

consider It develops, integrates, and promotes products & consultancy based on Electronic Components and Systems.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

CIT has worked in both German national and transnational programs such as ITEA, PENTA/Xecs, ECSEL/KDT, and IPCEI. Recent projects cover secure dev-ops, drones, autonomous systems, autonomous driving, Blockchain technology, and Artificial Intelligence on the edge.

TECHNOLOGICAL EXPERTISES

- Communication Technology (V2X, UWB, 5G)
- Artificial Intelligence (focusing on federated AI approaches for privacy preservation)
- Blockchain Technology (Ethereum, Hyperledge)
- Self-sovereign identity and data sovereignty

MARKETS

- Industrial Internet of Things (IoT; Industry 4.0)
- Automotive
- Aerospace (including drones)
- Renewable Energy Systems (Wind&Solar)

LOOKING FOR PARTNERS AND EXPERTISES

Consider it can contribute to projects as a partner with technical expertise but also support in acquiring and managing public funding. Consider It is open for partners across the whole value chain. The main interests are partners providing use cases and business problems as well as partners working further up the value chain on systems and components.

MORE INFORMATION

consider-it.de

Tobias Koch
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CRYTUR

Created in
1998

Employees
300

Company Location
Turnov,
Czech Republic

CRYTUR is an optoelectronic producer bringing specialised solutions to the global market. The highly integrated production includes optical material manufacturing, crystal growth, optical polishing and coating, clean room assembly, and an extensive high-precision CNC workshop. They produce high value-added complex products in the area of radiation detectors, X-ray cameras, laser technology, intensive light sources, imaging, medicine and defense.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

CRYTUR is the OEM detector manufacturer and component provider.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

CRYTUR has very strong interdisciplinary R&D team, equipped with the top up-to-date research equipment. CRYTUR works very closely with its customers, launching new products to the market.

TECHNOLOGICAL EXPERTISES

- Detector design and manufacturing
- Crystal growing and processing
- Precission CNC machining
- Clean-room assembly
- Thin film coating

MARKETS

- OEM detectors for semiconductor inspection
- Electron microscopy detectors
- High-power lighting systems
- High-energy physics and research
- Radiation detectors
- Opto-electronics, lasers
- Sensor components

MORE INFORMATION

crytur.com
sales@crytur.cz

D4T Systems BV

Created in 2009

Employees 2

Company Location Schijndel, Netherlands

D4T Systems offers highly specialized software products for IC test verification and test automation focused on analog mixed signal. Customer key benefits include first time right test programs, evaluating "what-if" test scenarios and our modelling approach leads to fast simulation and test integration. We provide services on our tools and help customers in new test technology projects with fast software prototyping and data analysis.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

D4T systems is a software product and service provider for architectural and chip design.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

D4T systems has active involvement in the following:

- PENTA: HADES for systems manufacturing chip test.
- ENIAC JTI: ELESIS for embedded chip test instrument verification
- CATRENE: TOETS for one integrated chip test solution

TECHNOLOGICAL EXPERTISES

EDA test simulation, IEEE test standard integration and simulation, chip test data analysis with fast prototyping software engineering

MARKETS

Semiconductor processing, test equipment and chip design (ODM) suppliers for high quality, high demanding applications:

- Industrial,
- Automotive,
- Healthcare

LOOKING FOR PARTNERS AND EXPERTISES

Welcome partnerships with semiconductor process and test equipment, chip design and design service providers.

MORE INFORMATION

d4t-systems.com

Leon van de Logt
leon.van.de.logt@d4t-systems.com

DDS Diagnostic

Created in 2002

Employees 30

Company Location Bucharest, Romania

DDS Diagnostic was founded in 2002 and has as its main activity objectives: 1) the production and sale of kits for in vitro diagnostics devices (IVDR) and 2) research and development in the field of biomedicine and biotechnologies. It is an innovative company in development, providing diagnostic kits as well as excellent technical support.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

DDS is specialized in design, architecture & application of the chips for IVDR.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

DDS Diagnostic is involved in national/international projects under partnerships with research institutes, universities and other companies, with a special focus on the development of IVDR products.

TECHNOLOGICAL EXPERTISES

DDS is the only Romanian manufacturer of IVDR kits for electrophoresis, immuno-agglutination, ELISA and several immunochromatographic LFIA tests, meeting the quality standard of the EU market.

DDS also produces RT-PCR kits and is active in the field of innovation for the specific detection of biological molecules through advanced techniques and technologies.

MARKETS

- Biofunctionalization of gold or nitrocellulose microarrays to quantifying analytes from human biological samples: antigens or antibodies;
- Diagnosis kits;
- Lateral flow immunoassay (LFIA);
- Molecular biology;
- Electrophoresis;
- Elisa;
- Latex.

LOOKING FOR PARTNERS AND EXPERTISES

- Electrochemical sensors manufacturers;
- Antibodies manufacturing;
- Point of care devices and technology;
- Software data analysis.

MORE INFORMATION

ddsdiagnostic.com

Dr. Dana Stan
dana_stan@ddsdiagnostic.com

Deda Technology

Created in 2024

Employees 5

Company Location Leuven, Belgium

Deda Technology specializes in advanced Hardware-in-the-Loop (HIL) simulation, testing, and validation for systems developed or under development in the fields of E-Mobility, Grid Modernization, and Power Electronics. We drive innovation by leveraging real-time testing, digital twins, and intelligent system modeling to seamlessly bridge the gap between design and deployment.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Systems, Applications, Architecture, Design Tools — advanced simulation, testing and verification, integrated solutions and software testing before deployment.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Partner in R&D programs on smart grids, e-mobility, and renewable integration. We provide on-site and off-site HIL-based testbeds and digital twins for collaborative system validation and control innovation designed and executed at our facilities.

TECHNOLOGICAL EXPERTISES

Hardware-in-the-Loop (HIL) simulation, real-time control, chip-set design & validation, digital twins, embedded systems, and power electronics. Expertise in designing and validating battery management systems, EV charging, grid converters, and renewable integration technologies.

MARKETS

Energy systems, e-mobility, aerospace, marine, and industrial automation. Serving companies and R&D institutes developing battery energy storage systems, EV charging, renewable integration, and power electronics solutions for electric propulsion systems in our facilities and across Europe

LOOKING FOR PARTNERS AND EXPERTISES

Seeking collaboration with research institutions, chip-set designers, technology developers, and industrial partners looking for simulation, testing and validation by using HIL and control engineering to co-develop advanced testing frameworks and accelerate sustainable technology deployment.

MORE INFORMATION

dedatech.be

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selcuk.deda@dedatech.be

DIGITAL TWIN TECHNOLOGY

DigitalTwin Technology GmbH

Created in 2018

Employees 6

Company Location Cologne, Germany

At DigitalTwin Technology, we need to continuously strengthen our commitment to make ourselves more inclusive and to contribute to make our world more just. Where every great idea can be heard and where everybody belongs. For the industrial enterprise, digital twin use cases are primarily being adopted across engineering, operations, and service.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

DigitalTwin Technology is edgeAI software algorithm developer.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

DigitalTwin Technology is currently involved in 2 ECSEL JU research projects – IMOCO4.E and Energy ECS.

TECHNOLOGICAL EXPERTISES

We have team of experts in the following areas:

- AI algorithm development, training using CNN and GAN technology.
- Development of digital twin software for the simulation of real processes.

MARKETS

- Physics and nanotechnology research for AI on chip design.
- Neuromorphic computing research for ultra low power SoC design.

LOOKING FOR PARTNERS AND EXPERTISES

We are looking for partners in the area of SoC design for the neuromorphic computing to be use in fully automation of vehicle driving.

MORE INFORMATION

digitaltwin.technology

Rahul Tomar
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EAAT GmbH Chemnitz

Created in 1993

Employees 35

Company Location Lichtenau, Germany

EAAT GmbH has been a competent and reliable partner in the development and production of electrical automation and drive technology for more than 25 years. We offer our customers tailor-made solutions in the areas of power electronics, electric direct drives and magnetic bearings. EAAT is both a design engineering firm and a manufacturing company.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

EAAT is a systems and applications developer and user.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

EAAT is involved in the innovative use of electronics and electrical components for the development and production of high-tech products in the areas of power electronics, direct drives and magnetic bearings.

TECHNOLOGICAL EXPERTISES

Hardware development

- Variable Frequency Drives
- Power Supplies
- Current & Voltage Sources
- Software programming
- Micro Controllers
- User Interfaces

MARKETS

- Industry
- Energy
- Semiconductors
- Nanotechnology
- Aerospace
- Agriculture
- Mining

LOOKING FOR PARTNERS AND EXPERTISES

- Component Developers & Manufacturers
- System Integrators
- Custom Product Designers
- Semiconductor Manufacturers
- Motor Manufacturers
- Capacitor Manufacturers

MORE INFORMATION

eaat.de

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eesy INNOVATION

eesy-innovation GmbH

Created in 2015

Employees 15

Company Location Unterhaching, Germany

Eesy-innovation GmbH works in the field of electronic systems design and develops sensor nodes and communications systems for private and institutional use. Its focus of the business activities goes to the development of products in the field of IoT for Smart Home, Smart Health and Safety and Security applications. In addition to research activities, eesy-innovation offers consulting solutions and has the potential to produce small series of innovation solutions.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

eesy-innovation works in field on system design and applications and as service provider.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Eesy-innovation has been active in the following projects:

- "NexGen" founded by CATRENE: developing system for health care
- "TreuFunk" founded by BMBF: developing a microchip for industry
- "Concordia" founded by H2020: cybersecurity solutions

TECHNOLOGICAL EXPERTISES

- Electronics system design
- Sensor nodes development
- Wireless communication systems
- Development of IoT products for Smart Home, Smart Health and Safety and Security applications

MARKETS

- Smart Home Market
- Industry 4.0
- Medical sensors
- IoT Market

LOOKING FOR PARTNERS AND EXPERTISES

- Universities for further colaboration.
- Cooperations partners from high tech industries looking for IoT expertise from demonstrators to high volume production.

MORE INFORMATION

eesy-innovation.com

Guenter Maximilian Hefner
hefner@eesy-innovation.com

energysquare

Energysquare

Created in 2015

Company Location Paris & Taipei

Employees 15

Energysquare, French company founded in 2015, is developing the new "Power by Contact" wireless charging technology. Power by Contact makes it possible to wirelessly charge several devices simultaneously, at the same speed as a conventional charger, at high power and without energy loss. This patented technology has been embedded by several device manufacturers such as Lenovo, to provide better ergonomics and charging experience to device users. Energysquare is licensing Power by Contact to international electronic device manufacturers.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Energysquare is a technology developer in the field of wireless charging.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Energysquare is active in collaborative projects with electronic device OEMs, ODMs and chip manufacturers, with the aim of embedding new wireless charging technologies in electronic devices.

TECHNOLOGICAL EXPERTISES

- Wireless charging
- Embedded systems
- Power management
- Charging protocols

MARKETS

- LaptopConsumer device
- Professional device
- Power

LOOKING FOR PARTNERS AND EXPERTISES

- Power management
- Battery Management SystemsPower components
- Wireless charging components

MORE INFORMATION

energysquare.co

Timothee Le Quesne

timothee@energysquare.co

EPIC Semiconductors, Inc. (EPIC)

Created in 2008

Employees 12

Company Location Vancouver, Canada

EPIC Semiconductors (EPIC) is a fabless technology design firm founded in 2008 in Vancouver, Canada.

EPIC has developed a microscopic AI sensor chip featuring energy harvesting (this eliminates the use of toxic batteries) and bidirectional non-magnetic (RF-free) communication. Its small size allows it to be easily embedded into everyday objects, sensing "human actions, physical forces, chemical reactions and bio-effects".

POSITIONING IN THE ELECTRONICS VALUE CHAIN

EPIC Semiconductors (EPIC) is a fabless technology systems design firm (IP architecture provider).

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

EPIC is involved in confidential RD&I collaborations with leaders in global markets

TECHNOLOGICAL EXPERTISES

Proprietary self-powered (batteryless), contactless and wireless communicating technology (magnetic-free) for sensors and AI on chip.

MARKETS

Automotive, home appliance, military, medical, retail, IoT, fitness, sensors and devices.

LOOKING FOR PARTNERS AND EXPERTISES

OEMs, tiers, enablers.

MORE INFORMATION

epic-semiconductors.com

Linda Zadeh

info@epic-semiconductors.com

Created in
2018

Employees
33

Company Location
Dublin, Ireland
California, USA
Timişoara, Romania

Equal1 develops compact quantum computers that integrate into today's infrastructure. We achieve this by integrating silicon qubits onto a single chip with all control, read-out and error correction electronics using standard commercial semiconductor processes. Our Quantum System-on-Chip Processors (QSoCs) offer superior performance, affordability, and energy efficiency, leveraging the commercial silicon foundry ecosystem. We operate in four locations – headquartered in Dublin, Ireland with offices in Silicon Valley (USA), Sherbrooke, (Canada), and Timişoara (Romania).

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Equal1 produces chips (QSoC quantum-system-on-chip) as well as integrating those **chips** into quantum computing **systems** that integrate into current datacenter infrastructure.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Our current RD&I activities are dedicated to advancing silicon qubits, quantum device engineering, cryogenic electronics, quantum simulations and quantum algorithm development.

TECHNOLOGICAL EXPERTISES

Semiconductor manufacturing for:

- Quantum devices,
- Quantum control engineering,
- Scalable quantum architectures,
- Quantum-classical hybrid systems,
- High-temperature quantum operations,
- Quantum circuit design,
- Quantum error correction,
- Silicon quantum dots,
- Spin qubits,
- CMOS technology.

MARKETS

Equal1's first quantum computer will deliver quantum utility to:

- Pharma,
- Banking,
- Material
- Cloud and AI companies.

LOOKING FOR PARTNERS AND EXPERTISES

Semiconductor materials for quantum, semiconductor equipment manufacturers, device modelling at cryogenic temperatures, IP blocks for processors at cryogenic temperatures, software development for quantum applications, quantum-classical hybrid systems architecture.

MORE INFORMATION

equal1.com

Jason Lynch
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Created in
2024

Company Location
Belgium

Employees
20

ESTEL is a European OEM/ODM manufacturer of MSA-compliant optical transceivers. All products are designed and made in the EU, offering full traceability, quality assurance, and tariff advantages for telecom and data center applications.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

SYSTEMS (Optical transceiver subsystem manufacturer).

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Active in RD&I collaborations with European research centers and industry partners to advance high-performance optical connectivity technologies.

TECHNOLOGICAL EXPERTISES

Semiconductor manufacturing for:

ESTEL combines deep expertise in optical, electronic, and firmware design to deliver high-performance MSA-compliant transceivers. Our technological know-how covers high-speed signal integrity, optoelectronic integration, thermal management, automated testing, and full traceability within EU manufacturing standards.

MARKETS

Equal1's first quantum computer will deliver quantum utility to:

ESTEL targets telecom operators, data centers, and system integrators across Europe and global markets. Our EU-made optical transceivers deliver high performance, reliability, and full compliance with MSA standards. Customers benefit from European manufacturing, tariff advantages, and complete product traceability.

LOOKING FOR PARTNERS AND EXPERTISES

ESTEL seeks partnerships with research institutes, technology providers, and system integrators to co-develop next-generation optical connectivity solutions. We welcome collaborations in photonics, packaging, testing, and advanced manufacturing to strengthen Europe's innovation and production ecosystem.

MORE INFORMATION

e-s-tel.com

Quentin Bolle
quentin.bolle@e-s-tel.com

EVALAN

Created in
2005

Employees
25

Company Location
Amsterdam,
The Netherlands

Evalan is an innovative development and application partner in the field of the Internet of Things. We work in close collaboration with our customers to achieve the best results possible.

Evalan focuses on remote monitoring, biometric measurements, and telemetric solutions for the healthcare, industry, and government sectors. We serve around 100 clients, ranging from large multinationals to small technology companies.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Evalan develops and implements IoT systems to add value to your business.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

- ECSEL: EnSO, ESEE
- H2020: SINTEC
- CATRENE: NexGen
- Eurostars: SACON, COMFORT

TECHNOLOGICAL EXPERTISES

We develop mobile devices, sensors, data management systems, data processing algorithms, and user interfaces for different platforms. We fully realize and implement the IoT platform.

We can manage your IoT system and optimize the performance to make sure it keeps working safely and provides the data that is needed.

MARKETS

- Healthcare
- Industry
- Government
- Business
- High tech

LOOKING FOR PARTNERS AND EXPERTISES

- Flexible electronics
- Printed electronics
- Structural electronics

MORE INFORMATION

evalan.com

Henk Schwietert
info@evalan.com

EXADDON

EXADDON AG

Created in 2019

Employees 8

Company Location Glattbrugg, Switzerland

Exaddon AG (Switzerland) is a high-tech startup in the field of microscale 3D printing. Exaddon's unique technology, called additive micromanufacturing (µAM), prints high-quality metal in 3D at the micrometer scale. Exaddon sells µAM systems to researchers around the globe via a curated distribution network. As µAM prints high-grade gold and copper in situ on chip surfaces, it is of direct interest to the semiconductor and probe card industry. A direct example is the printing of high pitch probe arrays using µAM, with tuneable design and pitch.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Exaddon is a manufacturer of microscale additive manufacturing equipment, and is a service provider.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Exaddon is active in various projects (inc. KDT) which seek to extend the current state of the art in semiconductor manufacture and testing, notably probe card using additively manufactured probe pin arrays.Other project participation includes H2020 Ultrawave (mmWave TWTs for 5G infrastructure), as well as other applications requiring microscale metal parts (MEMS, semiconductor, neural needles).

TECHNOLOGICAL EXPERTISES

Additive micromanufacturing of metal structures via local electrochemical deposition:

- Designing, optimizing, and printing metal objects with complex geometries, directly in situ on chip surfaces
- Electrochemistry, software & firmware engineering
- System & hardware design & optimization
- Object design and optimization

MARKETS

- Probe pins for probe card testing
- Semiconductor modification
- Neural interfaces (neuroprosthetics)
- High frequency communications (5G, THz)
- MEMS Fundamental research applications
- Material characterization

LOOKING FOR PARTNERS AND EXPERTISES

- Probe and Probe Card Specialist
- El. Testing Specialist (µm objects)
- Mechanical Testing Specialist
- Coating Specialist
- Chip Designer
- Heterogeneous Packaging Specialist

MORE INFORMATION

exaddon.com

Edward white
edward.white@exaddon.com

EXCILLUM AB

Created in 2007

Employees 50

Company Location Headquarters in Stockholm, Sweden / Subsidiary USA

Excillum AB, is a leading SME in the field of high end micro- and nano-focus X-ray sources. We design, develop and manufacture world's brightness microfocus X-ray sources based on MetalJet technology, and smallest nanofocus X-ray sources based on advanced e-beam technology. Our products are available for applications such as diffraction/scattering (XRD, SAXS), spectroscopy (XRF, XPS), imaging (NDT, CT, XRM, phase contrast), etc.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Equipment (sub-system provider to OEMs).
Excillum AB designs, develop and manufactures X-ray sources.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Excillum AB is and has been active in projects within different collaborative schemes such as:

- ECSEL JU – MADEin4
- EMPIR - NanoXSpot
- HORIZON 2020 – (CITCOM, SME Instrument)
- FP7 – (NanoXCT, EUROSTARS-E!7892)

TECHNOLOGICAL EXPERTISES

- Metal Jet anode for X-ray generation
- Advanced Electron Beam
- Micro - and Nano – focus X-ray sources
- X-ray systems (source + optics)

MARKETS

Equipment (sub-system) manufacturer for different fields:

- Semiconductor industry
- Electronics industry
- Industrial imaging
- Medical, Pharma
- Additive manufacturing
- Industrial production (aerospace, automotive)
- Quality control
- NDT

Research: materials, bio&medical, X-ray method development.

LOOKING FOR PARTNERS AND EXPERTISES

X-ray system integrators, X-ray component suppliers (other than X-ray source), X-ray application users.

MORE INFORMATION

excillum.com

Simona Laza
simona.laza@excillum.com

FABMATICS
Automate your success

Created in 1991

Employees 220

Company Location Headquarters Dresden, Germany

Fabmatics is an experienced specialist for the automation of material flows and handling processes in semiconductor factories, semiconductor process plants and other high-tech production environments. The company has been successfully implementing customer-specific automation projects for more than 25 years. The product portfolio includes mobile robots, robot cells, automated transport and storage systems as well as product identification solutions.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Fabmatics is a material handling systems and service provider (Value Chain Category: Equipment).

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Fabmatics and its predecessor companies HAP and Roth & Rau - Ortner have actively participated in H2020 & ECSEL projects:

- Cool Fab and Cool Flow
- EPT300
- SEMI4.0 / Productive4.0:
- ADMONT
- SeNaTe

TECHNOLOGICAL EXPERTISES

- Integrated automation competence for material handling, transport, storage and identification processes up to clean room class ISO3 / FED1
- Mask Handling, also for EUV Lithography in < ISO 1 Environments

MARKETS

- Semiconductor Industry
- MEMS
- Sensors
- PCB-Manufacturing
- Pharmaceutical/Medical Technologies
- Optical Industry

LOOKING FOR PARTNERS AND EXPERTISES

Advanced semiconductor manufacturing, Material handling automation solutions for transport, storage and handling, Smart intralogistics, Intelligent material identification and tracking, Digitalization of automation engineering companies, Software for efficient control of automation systems.

MORE INFORMATION

fabmatics.com

Dr. Karli Hantzschmann
karli.hantzschmann@fabmatics.com

FLEXBRIGHT

Flexbright Oy

Created in 2013

Employees 7

Company Location Haukipudas Oulu, Finland

Flexbright Oy is a Finnish high-tech startup company designing and manufacturing flexible, thin, light-weight & customizable LEDFOILs for large-area displays, media-walls & smart illumination. Roll-to-roll manufacturing process enables production of continuous LEDFOILs up to hundreds of meters long. Flexbright offers complete integrated solution, comprising of the LEDFOILs installation & control & power systems.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Flexbright is a LEDFOIL component supplier, Integrated system suppliers and Roll-to-Roll electronics manufacturing service provider.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Flexbright has been active in different RD&I schemes:

- Delphi4LED, ECSEL-RIA-2016

Finnish National funded R&D:

- Flex-in-Glass,
- ELASTRONICS, "Enabling the future of wearable electronics, Design and assembly of electronics on stretchable circuit boards.

TECHNOLOGICAL EXPERTISES

- Printed and flexible electronics materials, manufacturing processes and design
- Roll-to-roll manufacturing
- Design and roll-to-roll manufacturing of customized thin & flexible LEDFOILs with RGB(W) dynamic lighting
- Structural integration of LEDFOILs using various techniques (canvas, plastic-encapsulation, injection-moulding, glass lamination etc.)
- Complete integrated system solutions

MARKETS

- Automotive, home appliance, military, medical, retail, IoT, fitness, sensors and devices

LOOKING FOR PARTNERS AND EXPERTISES

- New materials and components for flexible electronics (substrates, adhesives, LEDs, sensors, encapsulation)
- Roll-to-roll manufacturing processes and equipment
- New structural integration opportunities
- Novel large-area application innovations

MORE INFORMATION

flexbright.fi

Kari Rönkä
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GADFIN LTD

Created in 2018

Company Location Israel

Employees 15

Established in 2018, Gadfin develops a fully autonomous service platform comprised of eVTOL UAVs and a robotic ground station for urgent long-range deliveries and preventative maintenance missions.

Gadfin's platform, engineered from the ground up by Israel's top aerospace industry experts, enjoys a sustainable advantage based on solid IP in aerodynamics solutions for drag decrease, patented folding wings mechanism, an integrated hydrogen fuel cell system, enabling unmatched flight range, and advanced safety systems.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Gadfin is developing and producing an end-to-end solution, which comprises of UAV, an Automated Ground Station, and a service application.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

POC with ENEL – High voltage powerline inspection using LIDAR.

TECHNOLOGICAL EXPERTISES

- Hybrid power source – LiPo batteries and H2 Fuel cells.
- Folding wings – long-range flight
- Patented capability to land on ship's deck

MARKETS

- Urgent medical delivery
- Linear infrastructure inspection

LOOKING FOR PARTNERS AND EXPERTISES

- Drone operators
- Medical Logistics companies
- Inspection service providers
- Utility companies

MORE INFORMATION

gadfin.com

Tzachi Cohen
Tzachi@gadfin.com

GREENWAVES TECHNOLOGIES

GreenWaves Technologies

Created in 2014

Employees 42

Company Location Grenoble, France

GreenWaves is a fabless semiconductor company founded in 2014 and based in Grenoble, France. We design and market ultra low power processors for energy constrained products such as hearables, wearables, IoT & medical monitoring products.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

GreenWaves designs ultra low power processors

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

GreenWaves has different collaboration schemes:

Direct collaboration with ETH Zurich, University of Bologna and our audio software partners

French supported R&D: SECURE-RISC-V, Audible

ECSEL: CPS4EU, Eureka: GIDSA, KDT: TRISTAN

TECHNOLOGICAL EXPERTISES

GreenWaves design highly efficient and easy to program ultra-low-power RISC-V processors.

They interpret and transform rich data sources such as images, sounds and radar signals using AI and signal processing.

MARKETS

- TWS & Headphones
- Smart Hearing Devices & Accessories
- Audio devices
- Wearables
- IoT devices
- Smart building sensors
- Smart home appliances

LOOKING FOR PARTNERS AND EXPERTISES

- Audio algorithms companies
- Audio software companies
- Sensor manufacturers

MORE INFORMATION

greenwaves-technologies.com

info@greenwaves-technologies.com

hyperstone®

Hyperstone

Created in 1990

Employees 65

Company Location Konstanz, Germany

Hyperstone is a fabless semiconductor company focusing on NAND flash and SSD controllers. Hyperstone's DNA for the past 30 years has been developing and delivering high quality, reliable and innovative solutions and striving to enable its customers to produce world-class storage systems for industrial, embedded, automotive and global communication applications. The firmware is supplied with the controllers and is customised for each flash application.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Supplying chips, reference systems and application firmware.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

H2020-FP7 / ELITE (leader): Technology development for vertical die stacking/interconnect

BMBF / 03FH025IX5 (participant): ECC and Compression

PENTA / XSR-FMC (leader): platform to develop POC silicon for advanced flash memory controller

TECHNOLOGICAL EXPERTISES

- NAND Flash memory controllers
- NAND Flash Technology
- Error Correction Coding (ECC)
- Flash Translation Layer (FTL)
- Security (AES, SHA, Elliptic Curve, TCG Opal)

MARKETS

- Industrial Automation, Industrial IoT
- Automotive (IVI, DashCam, ADAS...)
- Transport solutions
- Telecom Infrastructure (24/7 uptime)
- Smallcells, nanocells
- Energy (distribution, grid management,...)
- PoS, Kiosk, Gaming
- Secure storages (all markets), Medical

LOOKING FOR PARTNERS AND EXPERTISES

- Firmware development (security expertise)
- COT flow & Automotive Certifications
- Error Correction Coding
- Automotive Tiers-1 project partner for Disk-on-Board (DoB) solution development
- Channel modelling for flash memory
- Integrators and users of Flash based storage solutions (customisation, know-how transfer)

MORE INFORMATION

hyperstone.com

Damien Col
dcol@hyperstone.com

IBS (ion beam services)

Created in 1987

Employees 80

Company Location Peynier Rousset, France

IBS (Ion Beam Services) is an expert in ion implantation offering both state of the art equipment (IMC/ FLEXION Beam Line tools and PULSION Plasma Doping tool) and a range of services (implantation foundry, maintenance, refurbishment). IBS has a plant in France, subsidiaries in Scotland, US and Singapore. IBS has been involved with institutes and industrial customers in process development for advanced CMOS, power, sensors, optics, ...

POSITIONING IN THE ELECTRONICS VALUE CHAIN

IBS is an equipment manufacturer and a service provider

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

IBS has been and is active in projects within different collaboration schemes:

- French supported R&D projects: SUPERSWITCH oriented to power devices, ISICELL and OXYGEN for efficient solar cell by ion implantation
- FP7 or H2020 projects: SUPERTHEM for process simulation
- ENIAC and ECSEL projects: EPPL, 450 EDL, PLACES2BE, SEMI40, TAKEMI5, OCEAN 12

TECHNOLOGICAL EXPERTISES

- Ion implantation equipment
- Gas boxes, ion sources, high voltage, mass selection, ion beam scanning, e-chuck, vacuum, automation.
- Ion implantation and plasma processes.
- Planar and 3D doping, material modification and process integration for nanoelectronics.
- Silicon and wide gap power components processes
- Sensors manufacturing
- Plasma and ion beam surface treatment
- Solar cells manufacturing

MARKETS

Physics and nanotechnology research.

Components manufacturing for different fields:

- Memory and logic
- RF and power
- Optoelectronics, lasers, detectors
- Sensors
- Radiation detectors

LOOKING FOR PARTNERS AND EXPERTISES

- Advanced semiconductor manufacturing
- Process integration
- 3D structure fabrication (High aspect ration trenches, FINFET, GAA wire or plates..)
- Nanocaracterisation
- Process simulation
- Equipment part manufacturer

MORE INFORMATION

ion-beam-services.com

Laurent Roux
laurent.roux@ion-beam-services.fr

IDEAS - Integrated Detector Electronics AS

Created in 1992

Employees 26

Company Location Oslo, Norway

IDEAS - Integrated Detector Electronics AS - is a fabless supplier of integrated circuits (ICs) and systems based in Oslo, Norway. The company designs integrated circuits (ICs) and systems for radiation detection and imaging subsystems with proprietary readout technology. IDEAS works with research organisations and business partners creating new products based on IDEAS' custom made ICs.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

IDEAS develops Integrated Circuits (Chips) and sensor systems.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Recent innovations are Infrared FPA readout controllers for European customers, including European Space Agency, and ROIC, MEMS and WLP for uncooled infrared thermal image sensors.

Public funding received under H2020 (SONDE, 3DMUSE), EUROSTARS (MINC), ECSEL (APPLAUSE).

TECHNOLOGICAL EXPERTISES

- ASIC, IC, ROIC design, mixed signal, full-custom: amplifiers, ADC/DAC, SPI, FSM, SRAM
- SiPM, PMT, CZT, semiconductor sensors
- MEMS sensors (bolometers)
- CMOS supply chain management

MARKETS

- High-energy and nuclear physics
- Space radiation science and astronomy
- Security scanning using x-rays
- Industrial scanning using x-rays
- Thermography, surveillance

LOOKING FOR PARTNERS AND EXPERTISES

- OEM camera manufacturers
- Users of thermal infrared imaging
- MEMS foundry
- CMOS foundry
- MEMS packaging incl. wafer-level packaging

MORE INFORMATION

ideas.no

Dirk Meier
dirk.meier@ideas.no

IMAGIMOB AB

Created in 2013

Employees 12

Company Location Stockholm, Sweden

At Imagimob, we've invented a way to create AI applications that can run efficiently on small devices while still delivering the performance and accuracy typically only found in bigger systems. Combining inspiration from the machine learning field with our own innovations, each of our applications is designed with small MCUs, low CPU usage, and low memory consumption in mind.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Imagimob provides Edge AI Design tools and Applications.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Imagimob is active in ECSEL project: AFarCloud.

TECHNOLOGICAL EXPERTISES

- Edge AI application development
- Edge AI design tool development
- Sensors

MARKETS

Product companies aiming to transform to intelligent and autonomous products

LOOKING FOR PARTNERS AND EXPERTISES

- Sensor manufacturers
- Semiconductor manufacturers
- System integrators

MORE INFORMATION

imagimob.com

Anders Hardebring
anders@imagimob.com

INOVASYON MUHENDISLIK

Created in 2009

Employees 12

Company Location Eskisehir, Turkey

Inovasyon Muhendislik was established in 2010. The company conducts R&D projects on indoor and outdoor positioning systems, robotic systems and intelligent vehicles. This project is based on embedded system design of electronic equipment and systems, which implements the development and production. Our U-plat (Virtual Robotic Laboratory) product is an easier and better learning platform with open source ROS tutorials.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Inovasyon Muhendislik is software and equipment producer and service & technology provider.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

3rd Party Projects: ROSIN PS, ROSIN UPLAT, RPSIN PHM

ECSEL Project: VALU3S

TUBITAK Projects: Autonomous Carrier Robot for Smart Factories, IOTOPRO

KOSGEB Project: Automated Guided Vehicle (AGV)

ITEA Projects: INVALUE, WATERM, POLDER

TECHNOLOGICAL EXPERTISES

- Embedded Sytems
- Robotics Systems
- Data Collecting
- System Health Management
- Machine Learning
- Data Science
- 3D modelling
- Prototyping
- RF Communication
- Data Acquisition

MARKETS

- Automated Guided Vehicles (AGV)
- Indoor Positioning Systems (PLAB)
- Education and Research Robots (EVAROBOT)
- UPLAT (Virtual Robotic Laboratory www.theuplat.com)

LOOKING FOR PARTNERS AND EXPERTISES

- Producer at similar platforms
- Production sectors
- Robotic Systems users
- Data collectors

MORE INFORMATION

inovasyonmuhendislik.com

Erol Ciraci
erol.ciraci@inovasyonmuhendislik.com

intoPIX

Created in
2006

Company Location
Belgium

Employees
30+

intoPIX is an innovative technology provider of image processing and compression solutions. We create and deliver market-leading technologies across all audio-visual applications where image quality is a crucial asset. Our FPGA/ASIC IP cores and fast SDKs enable to manage more pixels, preserve quality with no latency, save cost & power and simplify connectivity in many devices and workflows.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

FPGA/ASIC IP-cores & CPU,GPU accelerated SDKs to build chips, systems and applications.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

intoPIX is participating to several collaborative projects (PENTA programne, EUROSTARS) with European partners in Broadcast, Industrial Vision, as well as various Universities & Research Centers.

TECHNOLOGICAL EXPERTISES

- Image processing
- Video compression
- Microelectronics (FPGA,ASIC)
- Software Acceleration (CPU,GPU)

MARKETS

- Media / Broadcast
- Industrial Vision
- Automotive
- Mobile
- Cameras

LOOKING FOR PARTNERS AND EXPERTISES

Looking for partners involved in standards for secure communication in automotive domain so as partners for secure identification and IDM.

MORE INFORMATION

intopix.com

Jean-Baptiste Lorent
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IObundle, Lda

Created in 2018

Employees 18

Company Location Lisbon, Portugal

IObundle develops innovative and efficient IP cores for System-on-Chip (SoC) solutions. Focused on machine learning and multimedia accelerators, we bridge academia and industry through open-source contributions and participation in European R&D projects. Partnering with CAST Inc. for global sales, IObundle ensures scalable, high-quality digital design for rapid deployment in the marketplace.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

IP Core provider specializing in Architecture, Design Tools, and SoCs.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

IObundle is a Lisbon University spinoff and leads in RISC-V and open hardware. With participation in European RD&I projects, we bridge academic research with industrial SoC design and AI acceleration.

TECHNOLOGICAL EXPERTISES

IObundle specializes in the design and verification of IP cores for machine learning and multimedia. Our expertise lies in the Py2HWSW framework, enabling efficient hardware-software integration. By bridging academic research with industrial application, we deliver scalable, commercial, and open-source designs for rapid SoC and embedded deployment.

MARKETS

IObundle serves the global semiconductor and embedded systems markets. Our solutions target high-growth sectors including Edge AI, Cybersecurity, and IoT. By providing RISC-V IPs for automotive, aerospace, and multimedia (audio/image processing), we enable energy-efficient, custom silicon for industrial and consumer electronics worldwide.

LOOKING FOR PARTNERS AND EXPERTISES

We welcome partners for European R&D consortia, specifically companies and research institutes with expertise in firmware development, IoT, or industrial pilots. We aim to integrate our RISC-V SoC and AI hardware into complete system-level solutions, bridging the gap between low-level silicon design and high-level application deployment.

MORE INFORMATION

iobundle.com

Jose T. De Sousa
jsousa@iobundle.com

Created in
1989

Company Location
Munich

Employees
130

KETEK is the world's leading manufacturer of Silicon Drift Detectors (SDD), which are used in an almost infinite number of industrial material analysis applications. Our SDDs can be found in X-ray fluorescence spectrometers & electron microscopes and contribute to countless material research experiments around the Earth – and some even on Mars.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

From bare silicon to detector chips and highly complex detector modules.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Involved in ECSEL (Call 2016 EuroPAT-MASIP)

TECHNOLOGICAL EXPERTISES

Engineers, physicists and technicians are developing and manufacturing a unique product portfolio around the Silicon Drift Detector Silicon Drift Detectors (SDD), that are the state-of-the-art X-ray detectors for the energy range between 0.05 keV and 30 keV.

MARKETS

SDDs used in applications suchas EDS, XrF, µXrF, and TXrF in bench top spectrometers, as well as in handheldsystems.

LOOKING FOR PARTNERS AND EXPERTISES

- Advanced Semiconductor Manufacturing
- Raw Material Analysis
- Recycling Industry

MORE INFORMATION

ketek.net

Dr. Reinhard Fojt
Reinhard.Fojt@ketek.net

Keysom

Created in
2022

Employees
15

Company Location
Bordeaux, France

Keysom is a major player in custom RISC-V processor cores. All its architectures allow high modularity and deep customization, in order to reach the best PPA metrics. The tool Keysom Studio is the first no-code design space exploration tool allowing users to compare and test any configuration in order to reach their target before the silicon phase. Keysom is a 2023 i-Lab competition winner.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Keysom is an IP vendor of RISC-V processor cores and accelerators.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Keysom is involved in R&D collaboration projects together with the French National Research Centre (CNRS) and the CEA, in order to develop neural networks for intelligent sensors.

TECHNOLOGICAL EXPERTISES

RISC-V, processor architectures, processor customization, accelerators, hardware description language HDL, design space exploration, LLVM compiler, toolchain, software design kit (SDK).

MARKETS

Microcontrollers, System On Chip (SoC) suppliers, accelerators, edge AI, intelligent sensors, automotive, ultra-low power (ULP),FPGA, Neural Networks.

LOOKING FOR PARTNERS AND EXPERTISES

- AAI models for embedded systems,
- eFPGA,
- Network On Chip (NOC) interconnect,
- High bandwidth Memory (HBM) controllers.

MORE INFORMATION

keysom.io

contact@keysom.io
+33 6351477788

Kovilta
SENSORS WITH SENSE

Kovilta Oy

Created in 2011

Employees 11

Company Location Turku, Finland

Kovilta excels in smart image sensors and AI HW for real-time edge applications. Kovilta's massively parallel sensor-level processing, with high sensor dynamic range, enables extremely low-lag visual analysis and control for mobile robotics. Kovilta also offers development and consultation services, from custom ASIC design and embedded camera implementations to algorithms and software.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Kovilta is a smart camera ASIC/system provider, ASIC design company and a design/consultation service provider.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Kovilta actively takes part in different National and EU-level R&D projects, e.g.:

- Finnish nationally funded (Business Finland) project **RapTor**: 2019-2022
- EU H2020 FET-Open project **MISEL**: 2021-2024
- EU/BF KDT-JU project **AGRARSENSE**: 2023-2025

TECHNOLOGICAL EXPERTISES

- BSI image sensor IC design
- 3D integrated image sensor SoC design
- Parallel processing IC design for edge devices
- Embedded camera HW with FPGAs
- PCB design
- Image analysis algorithms
- Neural network architectures and algorithms
- System-level modeling and simulation
- Embedded SW

MARKETS

- Situational awareness sensors for robotics and automotive applications
- ASICs and embdded systems for edge devices:
  - Smart image sensor SoCs
  - Real-time parallel processing HW
  - Neural network architectures and ASIC implementations
- IC design services and full-system prototyping

LOOKING FOR PARTNERS AND EXPERTISES

- Robotics sensor system integration
- Automotive sensor system integration
- 3D ASIC manufacturing

MORE INFORMATION

kovilta.fi**Jonne Poikonen**
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logicdev

logicdev eU

Created in 2020

Employees 3

Company Location Graz, Austria

Austrian-based high-tech SME company Developing AI-based Test Equipment & Test Systems.We have expertise & competencies in Research & Development; Verification, Validation & production of electronic products including FPGA IP, Hardware, Software & PCB design. We already Publish one patent for "High-precision testing techniques". We have a Strong, highly motivated team of experienced FPGA, Power electronics, Analog, Digital Hardware, SW and FW engineers.

We also offers consultancy and third-party design.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Logicdev provides Test Equipment & Test System Solutions for Chip & Application Validation.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

1. State of Art design for Thermal Modelling & Heat dissipation is ongoing with International university. This design under simulation and soon will reach TRL 4 level.
2. EMC radiation & Certification testing with EU University
3. ESA Space grade Test Equipment development

TECHNOLOGICAL EXPERTISES

- Analog & Digital Circuit design
- Simulation – PI, SI, chip level Virtuso
- PCB –Siemens PADS, Altium
- GUI –QT and Python
- FPGA –AMD, Intel and Microchip
- FPGA –Board design, development & verification
- Package simulation
- IP development

MARKETS

- Medical
- IOT Security
- EV Transportation Systems
- Industrial Materials Analysis
- Image processor
- Photonics
- Low power RF and Sensor Telemetry
- BMS
- Mobile design, LTE, M2M
- Sensor and system loop equipment

LOOKING FOR PARTNERS AND EXPERTISES

- AI – algorithm and protocol stack
- ASIC/IP- developer
- Semiconductor company
- Research house

MORE INFORMATION

logicdev.eu

Deepak v Katkoria

contact@logicdev.eu

M3 Systems

Created in 1999

Employees 40

Company Location Lavernose, France

M3 Systems is specialized in reliable and accurate geolocation. Since its creation in 1999, it has been developing in the areas of Space / Defense (GNSS), Air Navigation (ATM) and now Land Transportation (ITS). M3 Systems offers expertise, Test & Measurement software for the needs of innovative applications such as connected and / or autonomous systems.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

M3 Systems is an Applications Provider, a Systems Provider and an IPs provider.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

M3 Systems has been and is active in several projects among others:

- ENIAC projects: THINGS2DO for development of IPs on FDSOi technology
- ECSEL projects: OCEAN12 for development of IPs on FDSOi technology
- H2020 Projects: CPS4EU aimed to promote the development of Cyber Physical Systems

TECHNOLOGICAL EXPERTISES

- SDR IPs
- High Grade GNSS Receivers
- Ultra Precise geolocation systems
- High performance hybridization
- Signal Processing
- Test & Measurements

MARKETS

- Automotive
- Rail
- Space and Defense
- Maritime
- Drones

LOOKING FOR PARTNERS AND EXPERTISES

- RF partners
- Silicon vendors
- High Grade INS providers

MORE INFORMATION

m3systems.eu

Pollina Marc
Marc.pollina@m3systems.eu

Created in 2020

Employees 10

Company Location Eindhoven, The Netherlands

MantiSpectra is commercialising unique near-infrared (NIR) sensors that can classify and quantify material composition using NIR light. Their ChipSense™ technology is the smallest fully-integrated NIR sensor on the market with a footprint of 1 mm squared, ultra-low power consumption, and suited for volume production.

The sensor can be employed directly where needed: on the field by farmers, at the point of care, in the process line on conveyor belts, or along the whole production chain.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

MantiSpectra is an equipment manufacturer and service provider.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

MantiSpectra is active in projects within different collaboration schemes:

- MIT-R&D: Developing NIR sensors that can be used within the industrial processing line to measure the composition of plant biomass.
- SMART4ALL: MilkTrack, developing a real-time and on-the-field traceability and quality authentication platform for milk farmers enhanced with portable NIR sensors.

TECHNOLOGICAL EXPERTISES

- Sensor manufacturing
- NIR spectroscopy
- Chemometrics analysis
- Cloud-based analysis solutions
- Optical engineering
- Optical design
- Electrical engineering

MARKETS

- Process analytical technology
- Agri-food & Beverages
- Petrochemical & Polymers
- NIR analyzers

LOOKING FOR PARTNERS AND EXPERTISES

- System integrators
- Process integration
- End-users

MORE INFORMATION

mantispectra.com

Fang Ou
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mi2-factory

mi2-factory GmbH

Created in 2016

Employees 7

Company Location Jena, Germany

mi2-factory develops, distributes and applies an innovative proprietary tool, called "energy-filter for ion implantation" (EFII). Customers use this novel technology as a process step for optimized cost performance of semiconductor power devices (especially of Silicon Carbide SiC). mi2 factory´s energy filter technology enables power device cost-performance increase (20-80%). EFII results in high levels of doping accuracy across SiC wafers and from wafer to wafer.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Service provider (energy-filtered ion implantation) for precise wafer doping.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

mi2-factory is involved in the Power2Power EU project. European power device manufacturer will profit from the results by enabling cost-performance improvements mainly for Silicon power devices, but also for SiC.

TECHNOLOGICAL EXPERTISES

EFII as a production tool, which is specifically tailored for every customer application. The EFII chip consists of a micro-patterned membrane.

When used in ion implantation equipment EFII changes the energy distribution of high energy doping ions, such that the desired customer specific doping profile is produced in diodes, MOSFETs and superjunction. mi2-factory owns several patents.

MARKETS

- Media / Broadcast
- Industrial Vision
- Automotive
- Mobile
- Cameras

LOOKING FOR PARTNERS AND EXPERTISES

- **Device manufacturers:** using our technology in own process steps for the production of microchips (e.g. SiC high-voltage diodes, MOSFETs and superjunction devices) with significantly improved efficiency
- Foundries, ion beam accelerator manufacturers and end-station manufacturers can implement the novel ion implantation technology for their customers.

MORE INFORMATION

mi2-factory.com

Florian Krippendorf
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Micro Analog Systems Oy

Created in 2004

Employees 10

Company Location Helsinki, Tallin

Micro Analog Systems (MAS) is a fabless semiconductor house focusing on low power and low voltage analog and mixed signal products, designing and supplying high performance analog and integrated circuits supported by in-house wafer probing and test facility. MAS offers complete development and production services including concept and schematic design, simulations, prototype testing and production volumes.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

MAS is a chip maker and an ASIC design service provider.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

ECSEL: EuroPAT-MASIP project

TECHNOLOGICAL EXPERTISES

- Capacitive sensor conditioning
- Resistive sensor conditioning
- Capacitive to Digital converters (CDC)
- Analog Front-end (AFE)
- Ultra wide temperature oscillator control
- LiPO and LiFe battery management and charging
- Piezo drivers and Piezo speaker drivers

MARKETS

- Industrial measurement and analytics
- Telecom equipment
- Hand held devices
- IoT sensors and devices
- Medical applications and elderly care
- Power management solutions and chargers

LOOKING FOR PARTNERS AND EXPERTISES

- Sensor module manufacturers
- Oscillator manufacturers
- ODM and Design houses
- IC and lay-out design

MORE INFORMATION

mas-oy.com

Matti Jokelainen
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NANOTEST
Berliner Nanotest und Design GmbH

NANOTEST – Berliner Nanotest und Design GmbH

Created in 2004

Employees 25

Company Location Berlin, Germany

Berliner Nanotest und Design GmbH, serves as a full-scale provider of engineering services for reliability in microsystem technologies and nanotechnology, with special focus on thermal problems. Activities include development and provision of unstandardised, problem-specific measurement and characterisation services as well as development and sale of experimental setups and test beds. Another key topic is in-line failure detection based on thermal effects.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Nanotest is a measurement system manufacturer and service provider for thermal characterisation and analysis on material and system level.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Nanotest has been / is active in the following projects:

- BMBF: EHLMOZ, Nano-Proxi, iTSELF, GroTherm
- FP7/H2020: NanoPack, QuantiHeat, SmarTherm, InlineTest
- ECSEL: TRACE, EuroPAT-MASiP
- PENTA: CosmoDU

TECHNOLOGICAL EXPERTISES

- Thermal measurement techniques (steady-state, transient) for different classes of thermal materials
- Failure analysis, quality assessment and health monitoring based on thermovisual methods (IR, TR)
- Thermal design for reliability (TTVs)

MARKETS

- Materials suppliers
- Electronics components and systems manufacturers (thermal management)
- System manufacturers (quality assessment)

LOOKING FOR PARTNERS AND EXPERTISES

- Laboratory equipment manufacturers
- Electronic systems developers
- Thermal & electronic material suppliers
- Thermography equipment manufacturers
- Manufacturing equipment suppliers
- Wafer fabricators for thermal test chips and vehicles

MORE INFORMATION

nanotest.eu

Dr. M. Abo Ras
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OCTAVIC PTS

Octavic PTS

Created in 2016

Employees 12

Company Location Oradea, Romania

Copenhagen, Denmark

Octavic provides a complete system for monitoring and optimizing production. The platform covers: Real time visualization and notifications, historical analysis with over 35 KPIs related production, quality, maintenance, real time production planning, energy monitoring and predictive maintenance. It can cover from completely manual processes to fully automated lines in industries like Pharma, Tabaco, Food, Automotive and Construction.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Octavic produces and integrates hardware required for machines monitoring like IO boards and HMIs.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Octavic is active in various projects (ECSEL, H2020) within different areas:

- Predictive maintenance
- Real time planning of production
- 5G for wood production monitoring

TECHNOLOGICAL EXPERTISES

- Retrofit industrial equipment
- Real time interface with industrial machine
- Real time monitoring and visualization
- Production planning
- Energy monitoring
- Analytics

MARKETS

- Pharma
- Food & Beverage
- Automotive
- Construction
- Tobacoo

LOOKING FOR PARTNERS AND EXPERTISES

- Industrial equipment suppliers
- System integrators
- Analytics
- Process integration

MORE INFORMATION

octavic.io

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PAVOTEK

Pavo Design Production Electronic Trade Inc.

Created in 2003

Employees 231

Company Location Istanbul, Turkey

Pavotek was established in Istanbul in 2003 to provide qualified solutions with its expert engineers on electronic card and systems of product and design. We continue to work as a strategic partner of Turkey's defense companies. Automotive, Energy, Telecom and Power Control is designing products in different sectors. R&D office is located in Teknopark Istanbul, production and testing facilities also in İstanbul.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Pavotek is an electro-mechanic designer and manufacturer and therefore working in the equipment and materials areas.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

TÜBİTAK: These projects are related to power electronics, communication systems and autonomous Systems.

H2020-ECSEL & PENTA: Intelligent Reliability 4.0 (iRel40), Intelligent Secure Trustable Things (InSecTT) & Highly Automated Analog IP Reuse & Creation by Holistic Engineering (ARCHE)

TECHNOLOGICAL EXPERTISES

- Electronic Hardware Design (FPGA & embedded)
- Electronic SMD Typesetting and Manufacturing
- Electronic Testing and Integration
- Power electronics solutions
- Communication and control systems / products

MARKETS

- IP Communication Devices – Surveillance System
- Smart City and Energy Solutions
- Defense Technology- Communication &Control & Avionics System
- Industry 4.0 Tracking and Electronic Shelf Label(ESL) solutions
- Single Board Computer (to be continued)

LOOKING FOR PARTNERS AND EXPERTISES

Software application firms

MORE INFORMATION

pavotek.com.tr/en

Yelda Turgut
yelda.turgut@pavotek.com.tr

PHIX Photonics Assembly

Created in 2017

Employees 40

Company Location Enschede, The Netherlands

PHIX offers assembly services and contract manufacturing for photonic integrated circuits (PICs) and MEMS. We build optoelectronic modules based on all major PIC technology platforms, such as Indium Phosphide, Silicon Photonics, Silicon Nitride, and Planar Lightwave Circuit. We specialize in chip-to-chip hybrid integration, coupling to fiber arrays, and interfacing of DC and RF electrical signals. By offering our knowledge already at the chip design stage, we ensure ease of scale-up for volume manufacturing. PHIX provides a one-stop-shop for PIC and MEMS assembly, from design to volume production. We have a state-of-the-art production facility located in Enschede, the Netherlands, supporting the global industrial development of PIC and MEMS enabled modules.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

PHIX is a systems manufacturer, combining photonic and electrical ICs into modules.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

PHIX currently participates in 20 Horizon 2020/Horizon Europe or Dutch national research projects. In many cases, the focus is on developing novel packaging technologies and processes for optoelectronic module manufacturing, to bring disruptive innovations closer to the market.

TECHNOLOGICAL EXPERTISES

- Photonic chip packaging
- Flip chip die bonding
- Optical edge coupling
- Die polishing
- Optical fiber attachment
- Wire bonding
- 3D printing of micro-optics

MARKETS

- Automotive (LiDAR)
- Medical (biosensors)
- Quantum (photonic processors)
- Datacom and telecom
- Industrial sensing
- Food and agriculture
- AR/VR
- Space

LOOKING FOR PARTNERS AND EXPERTISES

- Photonic and Electronic IC Design Houses and Foundries
- Machine Manufacturers for Assembly and Packaging Automation
- Material Developers and Component Manufacturers (e.g., Fiber Arrays, IC Substrates, Hermetic Packages, and Housings) for Optoelectronics
- Original Equipment Manufacturers for Microelectronics and Photonics Product Applications
- 2.5D and 3D Electronic IC Packaging Expertise

MORE INFORMATION

phix.com

m.milosevic@phix.com

Phoenix AI sa

Created the 12/12/2017

Employees 10

Company Location Peruwelz, Begium

Phoenix AI is a provider of intelligent video analytics (IVA) solutions based on Artificial Intelligence and deep learning. All solutions are based on Edge devices combining state-of-the-art hardware, software, and AI to provide businesses and organizations with a comprehensive event detections on video image streams.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Phoenix AI is an equipment manufacturer and system developper.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

PHOENIX AI has been and is still active in Eurostars Vibbre Project, and in Mecatech (Walloon Regional Project) ReconnAIssance project.

TECHNOLOGICAL EXPERTISES

- Expertise in Video technologies
- AI Data (images) evaluation a nd annotation for detection, segmentation and classification.
- AI Model conception
- AI model development and training
- AI model deployment
- Application sandboxing with various AI models
- Hardware engineering for industrial purposes.

MARKETS

- Smart cities with environmental monitoring system (waste tipping, graffiti detection, outdoor parking mgt., ..);
- Intelligent traffic detection and safety system (pedestrian, cars, trucks, vessels,..);
- Smart security for protecting private/ public assets/infrastructures;
- Smart broadcast enhancement;

LOOKING FOR PARTNERS AND EXPERTISES

N/A

MORE INFORMATION

phoenix-ai.com

Laurent Renard
laurent@phoenix-ai.com

Created in 2006

Employees 25

Company Location Eskisehir, Turkey

PITON provides cutting-edge electronics and information technology solutions, working on different areas for software and embedded solutions. PITON is not only a software expert but also full system designer and implementer with addition of Electronics and Innovation expertise. With a special focus on critical infrastructures and digital transformation, PITON designs and implements Smart City Solutions, Transportation Management Systems, IoT-enabled Systems and GIS-based Business Intelligence Solutions.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Software development, full system designer and implementer, mobile application development.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

PITON works on innovative software and electronics solutions in any business especially for public bodies and industry. PITON is an expert on IoT based M2M systems and has already developed many embedded and fully integrated solutions on transportation and governmental organisations.

TECHNOLOGICAL EXPERTISES

Transportation Information, Passenger Information, Enterprise Management, Fleet Management and Asset Monitoring software systems.

MARKETS

- Smart City
- Transportation
- Mobility
- GIS
- Logistics
- Public Services

LOOKING FOR PARTNERS AND EXPERTISES

- Advance Semiconductor Manufacturing
- 5G Communication
- IoT Sensor Fusion
- AI/ML/DL
- Autonomous Vehicles
- Green Vehicles

MORE INFORMATION

piton.com.tr

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plexim
electrical engineering software

Plexim GmbH

Created in 2002

Employees 40

Company Location Zurich, Switzerland

Plexim, with locations in Zurich and Boston, is an innovative software company active in the field of technical simulation. For 20 years we have successfully developed and marketed PLECS – the leading simulation software for power electronic systems and electrical drives. In addition, we offer automatic code generation and real-time systems as technologies for the development and test of controls.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Plexim is a software company providing technical simulations in the field of power electronics and control design.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Plexim has been and is active in projects under different cooperation programs:

- Innosuisse supported projects: "*Scalable real-time hardware-in-the-loop power electronics system*".
- Innosuisse and SERI funded HORIZON project: "*PowerizeD – Digitalization by Intelligence for Power Electronic within Value Chains*".

TECHNOLOGICAL EXPERTISES

- System design and simulation of power electronics applications.
- Automated code generation for microcontrollers and real-time systems.
- Hardware-in-the-loop (HIL) and rapid control prototyping (RCP) with our in-house developed real-time box.

MARKETS

Our customers are industrial corporations of all sizes, research labs and universities.

They develop systems for electrical energy conversion and thus drive the transition towards electromobility and renewable energy sources.

Plexim's tools are employed in the development of electric cars, rolling stock, wind turbines, solar inverters and power supplies.

LOOKING FOR PARTNERS AND EXPERTISES

- Engineering companies designing and developing power electronics
- Semiconductor manufacturers
- Microcontroller developers

MORE INFORMATION

plexim.com

Jost Allmeling
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POLLEN METROLOGY

POLLEN Metrology

Created in 2014

Employees 22

Company Location Moirans France

French deeptech specialising in AI-assisted metrology & production improvement. Our AI open framework makes the analysis of images (SEM, TEM, C-SAM, ...) automatic.

Process data are used to train models and predict better outcomes (using optimisers): leads to faster process development and yield enhancement.

POLLEN is at your service to help you integrate solutions adapted your problems.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

POLLEN is a software provider for IC manufacturers and equipment suppliers.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

- European Project: EMPIR (17NRM04 nPSize)
- France-Relance: 6 projects, with UCA and uB
- Easytech-Minalogic: DeepSmart, with UCA
- PSPC: Process enhancement, with industrial partner and UCA

TECHNOLOGICAL EXPERTISES

- Multi-scale metrology and defectivity (open sw platform).
- AI expertise (Machine Learning & Deep Learning):
  - Image Processing (edge detection, deformations)
  - Automated metrology (object detection, CDs, segmentation)
  - Process optimization (data processing)
- Deep learning uses supervised and unsupervised training, modelling, prediction and optimisation.

MARKETS

- IDM & Nanomaterials Manufacturers (from Lab to Fab).
- Equipment suppliers.
- Industrial process owners.

In multiple fields: Semiconductor, Chemical, Displays and AR/VR, Automotive, Batteries.

For any process data or images

LOOKING FOR PARTNERS AND EXPERTISES

Partner: owner of a process with data to be optimised: existing data, or data to design (obfuscation ofdata ensures confidentiality); motivated by well-distributed data to train an effective model.
e.g. IDM or nanomaterial manufacturer
POLLEN's solution is well adapted to complex processes, such as materials, semiconductors, chemicals.

MORE INFORMATION

pollen-metrology.com

Richard Fontanges
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Pregenerate GmbH

Created in 2019

Employees 2

Company Location Vienna, Austria

Pregenerate GmbH is a Vienna based microfluidic start-up established in November 2019 which is improving quality of life by In Vitro diagnostic (IVD) and Point-of-care diagnostics (POC). The core technology of Pregenerate GmbH is microfluidics, with offers in two platform technologies: organ-on-chip (arthritis IVD) and lab-on-chip (rapid viral POC).

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Pregenerate is microfluidic chip developer and service provider for IVD and POC.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Pregenerate is involved in ECSEL Research and Innovation Actions (RIA)Calls 2020 for Data treatment & Wearable Integration Technologies for Medical Applications.

TECHNOLOGICAL EXPERTISES

- Microfluidics chip development
- Drug testing for Arthritis Invitro diagnostics
- Lab-on-a-chip system for detection of Viral infections.

MARKETS

- Organ-on-a-chip
- Personalized medicine
- Drug development
- Equine arthritis market Lab-on-a-chip
- Point-of-care

LOOKING FOR PARTNERS AND EXPERTISES

- Arthritis patient cells and tissue banks
- Drugs for Arthritis that needs to be tested
- AI system for morphological analysis of images
- Virology Biosensing experts
- Automation of the liquid handling with lab robotics

MORE INFORMATION

pregenerate.net

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QBLOX

Created in
2018

Employees
85

Company Location
Delft,
The Netherlands

Qblox provides modular and highly integrated control electronics and software for quantum technology. Qblox has focused so far on revolutionizing control stacks for gate model quantum computing by making extremely scalable hardware that drastically simplifies experimental setups and by creating electronics with the market's best noise and drift performance.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Qblox is an equipment manufacturer (hardware and software).

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Qblox has been and is active in multiple collaboration schemes:

Dutch supported R&D (QDNL), H2020 (EIC Accelerator, 2x Transition, Pathfinder Challenge), QIA, KDT.

TECHNOLOGICAL EXPERTISES

- Quantum control stacks for many qubit modalities including superconducting, spins and optical qubits.
- RF control and readout.
- DC control and readout.
- Quantum software to schedule experiments and collect results.
- Modular and integrated electronics.
- Ultralow noise and drift.
- Synchronization and communication protocols.

MARKETS

- Quantum computing labs for many qubit modalities including superconducting, spins and optical qubits.
- Quantum communication.
- Quantum sensing.
- NISQ and Fault-tolerant quantum computing.
- Qubit tuning.
- Hybrid Quantum-HPC Computing

LOOKING FOR PARTNERS AND EXPERTISES

- Equipment part manufacturer.
- Component testing.
- Assembly.
- Integration with other parts of the quantum stack.
- System integrators

MORE INFORMATION

qblox.com

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qruise

Qruise GmbH

Created in
2021

Employees
19

Company Location
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D-66113
Saarbrücken,
Germany

Qruise creates software enabling scientists to integrate Machine Learning into daily research seamlessly. We bring a productised toolset making ML driven discovery accessible to all.

Our first offerings address the growing pains of controlling current generation noisy quantum computers (NISQ devices) and provide improvements in operational fidelities through the use of ML & Quantum Optimal Control.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Qruise develops software for automating the bring-up process of quantum chips.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Qruise is currently playing a pivotal role in Quantum Flagships and other UE projects such as: QCStack, QSolid, SPINNING,MUNIQC-Atoms, NiQ,QuE-MRT, EuRyQa, PASQuanS2, OpenSuperQ+, EIC Transition, Aqtivate

TECHNOLOGICAL EXPERTISES

- Fully Parallelised bring up of multi-qubit chips
- Continuous monitoring of key metrics
- Smart triggering of specific calibration tasks
- Centralised data-lake as single source of truth
- Traceable failure detection
- Offline-Online Model Learning based characterization
- Interleaved Calibration to reduce downtime

MARKETS

- QPU manufacturing
- Quantum computing
- Quantum sensing
- Nuclear Magnetic Resonance
- 2D materials
- Neuromorphic computing

LOOKING FOR PARTNERS AND EXPERTISES

- Testbed facilities
- Control hardware developers
- QPU developers
- Quantum computing manufacturers (NV centers, superconducting, ion traps, Rydberg atoms)
- Quantum sensing manufacturers (Magnetometers, Clocks, Gyroscopes, Gravimeters)
- Photonics manufacturers
- NMR/MRI manufacturers

MORE INFORMATION

qruise.com

Nicu Becherescu
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Created in 2011

Employees 17 (2025)

Company Location North Wales, United Kingdom

RAM Innovations specialises in advanced packaging of silicon and wide bandgap (WBG) semiconductors using die embedding techniques. RAM designs and manufactures high-efficiency, high-density power modules for transport, industrial and defence applications. Its technology enhances thermal performance and reduces size, with broader applicability across photonics, RF and magnetics. RAM's expertise spans 2.5D, 3D and heterogeneous integration packaging.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

RAM packages semiconductor dies and passive components to create modules.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

RAM has been involved in a number of UK national collaborations including P3EP (Innovate UK), SCION (Advanced Propulsion Centre) and HiPECERA (DASA). RAM is keen to develop collaborative relationships across Europe through Horizon and other funding mechanisms.

TECHNOLOGICAL EXPERTISES

- Embedding of semiconductor dies into laminate substrates.
- Precision placement and alignment techniques.
- Multi-layer embedding for power density optimisation.
- Power module design.
- Heterogeneous integration (combining active and passive components).

MARKETS

Power conversion, sensors, RF, magnetics in :

- Aerospace,
- Automotive,
- Space,
- Defence,
- Industrial,
- Energy,
- Rail and Marine.

LOOKING FOR PARTNERS AND EXPERTISES

- Semiconductor device manufacturers.
- OSATs and advanced packaging facilities.
- Packaging research organisations.
- Materials and process chemistry businesses and research organisations.
- End-users and system integrators in power conversion, photonics, RF and magnetics markets.

MORE INFORMATION

ram.com

Nick Russel
nick.russel@ram-innovations.com

Raw Power Srl

Created in 2007

Employees 8

Company Location Reggio Emilia, Italy

Raw Power Srl was born as spin-off of the university of Modena and Reggio E. Its core business is the design and consultancy in static power conversion, electrical machines design and electric power drives for industry applications. Raw Power's mission is promoting the technology transfer from the research to the enterprises and Raw Power supports its customers during product design and manufacture offering innovative and up-to-date solutions with the body of knowledge.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Raw Power is a services company in power electronics, electric machines and electric drives.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Regional POR FESR 2014-2020: for the development of diagnostic and prognostic sensors in automation;

ECSEL 2020 RIA 2, project YESvGaN: definition of new vertical GaN technical data and compare its performance with the ones of traditional WBG technologies (SiC and Si).

TECHNOLOGICAL EXPERTISES

- Static power inverters design;
- Electrical machines design: permanent-magnetic synchronous motors, pure reluctance motors, linear electric motors, etc...;
- Electric power drives;
- Electrical machines standards;
- Diagnostic and prognostic;

MARKETS

- Gardening;
- Renewable energies;
- Parcel sorting ;
- Household electric appliances;
- Textile machines;
- Automotive;
- Automation;
- Gas and oil industry;
- Sensors;
- Fitness equipment;
- etc,

LOOKING FOR PARTNERS AND EXPERTISES

- Semiconductor manufacturers;
- Rapid prototyping manufacturing of electric steels;
- Permanent-Magnet manufacturing;
- SMC manufacturing;
- Sensor manufacturers;

MORE INFORMATION

rawpowergroup.it

Mr. Andrea Stefano Crinto
andreastefano.crinto@rawpowergroup.it

Reden BV

Created in 2001

Employees 21

Company Location Hengelo, The Netherlands

REDEN BV is a Research & Development company that excels in simulation-driven product development and the development of Digital Twins. We support our clients in achieving a breakthrough in their product development.

Based on our simulation models, we offer product developers better understanding of the relationship between production design and performance; the Digital Twin. We make performance predictable (design for 6 Sigma).

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Reden is involved in new product and process development and optimising existing products and processes.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Involved in PENTA project Hyb-Man.

TECHNOLOGICAL EXPERTISES

- Multi physics modelling & simulation
- Digital Twinning
- Design for 6 Sigma
- Artificial Intelligence

MARKETS

OEM's in machine Industry, consumer products, automotive and aerospace.

LOOKING FOR PARTNERS AND EXPERTISES

OEM's in different sectors, Big Data specialists.

MORE INFORMATION

reden.nl

Marco Ezendam
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RIBER

Created in
1964

Employees
110

Company Location
Bezons,
France

RIBER S.A is a leading supplier of Molecular Beam Epitaxy products and related services for the compound semiconductor field, to deposit thin layers of materials with atomic precision.

We have developed a large range of research or production MBE tools, MBE components and processes knowledge, in order to support increasing demands in different fields like data communications, 5G/6G and VCSELs lasers, photonics, sensors, 3D sensing, or emerging fields like quantum materials

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Riber is an equipment manufacturer and a service provider.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Riber has been and is active in various R&D&I collaborative project, at the national and European levels.

French supported R&D : MICRONG, Joint Lab Epicentre

European Projects : Member of COST OPERA, Photonics 21, Photogenic (council member), IQARO

TECHNOLOGICAL EXPERTISES

- Molecular Beam Epitaxy experts
- Systems & components
- Epitaxy process, reactor conditioning
- After-sales service & maintenance

MARKETS

Main market:

- Compound semiconductors epitaxy

In the value chain for :

- Datacom & Telecom
- Space, Defense & Security
- Health & Environment
- Automotive
- Quantum
- Academic Research

LOOKING FOR PARTNERS AND EXPERTISES

- Compound semiconductors
- 200 mm & 300 mm foundries
- Partners who can characterize BTO at the structural level.
- Partners who can analyze particle spec vs SEMI standard on 300mm.
- Partners who may share the same supply chain willing to work on mutualization.
- MBE partners willing to move towards smart MBE (ML/AI).
- Partner willing to promote needed skills to schools.

MORE INFORMATION

riber.com

info@riber.fr

RULEX INNOVATION LABS

Created in 2007

Company Location Genova, Italy

Employees 27

Rulex Innovation Labs (RIL) represents the headquarters for the research and development of the American company Rulex Inc. which specializes in Artificial Intelligence and in particular in B2B applications on decision and process automation through the machine learning technology called LLM (Logic Learning Machine), contained inside the software Rulex Analytics®.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Rulex is a software and service provider.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

RIL manages all the R&D activities for Rulex Inc. RIL is involved in several research projects, both at European and National level.

H2020: NEXT PERCEPTION, VALU3S, FRACTAL, SAFECOP

TECHNOLOGICAL EXPERTISES

RIL develops innovative methods for Explainable AI (namely Logic Learning Machine) and helps business users to implement Rulex-based automated decision process powered by XAI.

MARKETS

Thanks to its domain-independent approach, Rulex can apply its technologies in many fields, such as: cyber-physical systems, industry automation, IoT, supply chain, fintech, energy, transports and health.

LOOKING FOR PARTNERS AND EXPERTISES

Rulex looks for partner with strong expertise in specific vertical fields to apply its algorithm in real-world context.

MORE INFORMATION

rulex.ai

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SAYKAL

SAYKAL ELEKTRONİK

Created in
2010

Employees
+100

Company Location
Gebze,
Türkiye

Saykal is a Tier-1 electronics technology company in automotive sector. Our technology focus is on sensing & power electronics technologies. Saykal is a full system supplier in automotive sector. Saykal can design any electronics device on sensing & power electronics techs in any sector. We can contribute in design, testing & prototyping process of high-tech sustainable electronics devices. We have a deep expertise on mmwave radar systems, radar perception and automotive power electronics.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Full system supplier in automotive electronics, from sensors to power units.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

- **Mercedes**: In-cabin radar and lighting solutions
- **TOGG**: Sensor development, ECU, and interior lighting
- **MAN**: USB and wireless charger systems
- **Stellantis**: Radar sensor and body ECU development
- **Isuzu**: In-cabin radar, sensors, and TPMS solutions
- **NXP Semiconductor**: In-cabin radar, UWB
- **Infineon**: Automotive Power Electronics
- **On Semiconductor**: Automotive Power Electronics

TECHNOLOGICAL EXPERTISES

Expert in power electronics and intelligent systems for mobility. R&D activities cover radar-based safety sensors (BSIS, MOIS, Reversing), TPMS, seat ECUs, wireless and USB charging, onboard chargers, DC-DC converters, inverters, and ECE R10 & ISO-compliant automotive-grade electronic control design.

MARKETS

- Automotive and intelligent mobility electronics.
- Electrification and connected vehicle systems.
- Commercial and passenger vehicle OEMs. Tier-1 and Tier-2 suppliers in power and safety electronics.
- Public transportation and autonomous system integrators.

LOOKING FOR PARTNERS AND EXPERTISES

Seeking strategic industrial partnerships to accelerate electrification and mobility transformation. Open to joint development in power electronics, charging systems, radar sensing, and ECU production, strengthening integration, innovation, and sustainable manufacturing in automotive electronics.

MORE INFORMATION

saykal.com

info@saykal.com

Salvia BioElectronics

Salvia BioElectronics BV

Created in 2017

Employees 27

Company Location Eindhoven, Netherlands

Salvia has been founded in 2017 to develop bioelectronic solutions that restore health for people suffering from chronic migraine. Salvia aims to provide drug-free solutions that are effective and inherently side-effect free and make its novel solutions widely accessible.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

To develop and bring to market medical devices.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Salvia is an active participant in international collaborative projects, including ECSEL (Moore4Medical project), PENTA (HyPerStripes project) and Eurostars (RELIEVE project).

TECHNOLOGICAL EXPERTISES

Implantable device development, including:

- Bioelectronic foils
- Low power electronics
- Mechanical design, usability
- Biocompatibility

MARKETS

- Active implantable medical devices
- Chronic migraine therapy

LOOKING FOR PARTNERS AND EXPERTISES

Looking to team up with companies for medical app development, modelling and reliability assessment (e.g. electromagnetic compatibility, mechanical reliability).

MORE INFORMATION

salvianeuro.com

Daniel Schobben
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Created the
14 July 2011

Employees
7-10

Company Location
Anzio
(RM)

SENSICHIPS is a SME developing safety system microsensors that brings together a unique combination of expertise in materials science, analytical chemistry, nanotechnologies, precision analog microelectronics and artificial intelligence to engage in the development of a next generation learning microsensors platform.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Sensichips develops microelectronic chips and sensors. We are a supplier of enabling technologies.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Sensichips has been and is active on different EU projects. The company participates to 3believe (GA 875033) and SOLSTICE (GA 963599) of the Horizon H2020 program, to HighSpin (GA 101069508), MATISSE (GA 101056674) and OPEVA (GA 101097267) of the Horizon Europe program.

TECHNOLOGICAL EXPERTISES

The company focuses on the development of microelectronics chips for sensing applications and with the integration of machine learning acceleration.
As such it combines expertise in materials science, analytical chemistry, nanotechnologies, precision analog microelectronics and artificial intelligence.

MARKETS

Battery sensors, gas and chemical sensors, spectrometers, physiological sensors, biosensors, ratiometric and radiological sensors

LOOKING FOR PARTNERS AND EXPERTISES

We are looking for partners and collaborations in the domain of machine learning at the edge TinyML for sensing applications.

MORE INFORMATION

sensichips.com

Cecilia Castellani
cecilia.castellani@sensichips.com

SINGLAR Innovación

SINGLAR INNOVACION S.L.

Created in 2017

Employees 7

Company Location Valencia, Spain

SINGLAR INNOVACIÓN has an experienced and skilled team that develops its own products and offers services in the Cyber Security sector, specifically in:

- → **Development and commercialisation of developed products in regulatory compliance and security.**
- → **Cybersecurity services: implementation of national and international standards (compliance), forensic analysis and deployment of specific security solutions.**
- → **Distribution of third-party security products specialised in cybersecurity.**

POSITIONING IN THE ELECTRONICS VALUE CHAIN

SINGLAR is working from systems to ultimately, and more significantly, in applications and services.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

SINGLAR is active in R&D funded projects in cyber security. The company permanently works with a R&D department that works continually in the opportunities detected in the market with the aim of satisfying customer and market innovation needs.

TECHNOLOGICAL EXPERTISES

SINGLAR is specially focused on the security and privacy concerns of operational tools and platforms, having developed solutions that support services in critical infrastructures.

We are currently in coordination with the Spanish National Cryptologic Centre to cooperate in the security of ICT Systems within Public Administration.

MARKETS

- Industrial Security Audit.
- Operation Management and Industrial Cybersecurity.
- Operation and maintenance of ISO quality management system.

LOOKING FOR PARTNERS AND EXPERTISES

Companies with expertise and solutions in systems where applications could be deployed and integrated to offer Singlar's cyber security services.

MORE INFORMATION

singlarinnovacion.com

Rafael Vidal

innovacion@singlarinnovacion.com

Created in 2019

Employees 10+

Company Location Maisons Laffitte, France

SiPearl is the industrial hand of European Processor Initiative, and is indeed the fabless company integration, supporting and selling the chip to the market

SiPearl is focused on Advanced Data Processing for High Performance Computing, Artificial Intelligence and Edge Computing. SiPearl Common Platform will enable and speedup European AI, Cryptographic and Quantum startupWe are focused on the P3S. Performance - Sovereignty - Safety - Security

POSITIONING IN THE ELECTRONICS VALUE CHAIN

SiPearl positioning is in Architecture, and chip design, being fabless.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

SiPearl is deeply involved in the European Processor Initiative (H2020 consortium initiated in Dec 2018) and supported by DGConnect and will own EPI chip.

TECHNOLOGICAL EXPERTISES

- Digital and High Speed
- 2.5D and large dies
- Deep note submicron process (beyond 7nm)
- Interconnect and HPC software

MARKETS

- High Performance Computing, AI and Edge Computing
- Cryptography

LOOKING FOR PARTNERS AND EXPERTISES

- Looking for advanced packaging, interposer, 2.5D, 3D expertise in EU.
- Looking for automotive safety expertise for high performance CPU's

MORE INFORMATION

sipearl.com

Philippe Notton
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Created in
2020

Employees
5

Company Location
Istanbul,
Turkey

SmartUniversal develops software and integration solutions for connected and autonomous construction machinery, agricultural vehicles and handling equipments. SmartUniversal transforms its existing technical know-how in connected and unmanned systems into practical, field-usable solutions thanks to EU-funded research projects and OEM collaborations.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

SmartUniversal is positioned in the applications area of the Electronics Value Chain. SmartUniversal provides autonomous and connected feature retrofit solutions for vehicle types with different scales and capabilities including excavator, telehandler and loaders.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

SmartUniversal is currently involved in StorAIge (development of edge supported autonomous operations using AI and smart sensors), BEYOND5 (develop tele-operation technologies for smart construction machinery supported by 5G and vision sensors), ADACORSA (develop autonomy technologies for smart construction operations of automated machines supported by drones and aerial sensors) KDT (ECSEL) JU projects.

TECHNOLOGICAL EXPERTISES

The software solutions developed by SmartUniversal include autonomous excavator behavioral simulator, control software, perception and object detection software, teleoperation software and autonomous navigation software, targeted to be field proven.

MARKETS

Construction is the primary market targetted by SmartUniversal. Construction sector usually constitutes the largest markets especially in developing countries. In contradiction, construction equipment and machinery have fallen behind in technology. Development in sensors, software and regarding applications are ignored especially when compared with automotive industry.

LOOKING FOR PARTNERS AND EXPERTISES

We are looking forward to collaborations with construction machinery manufacturers, construction and mining companies.

MORE INFORMATION

smartuniversal.com

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oguzi@smartuniversal.com

SPACEMETRIC

Created in
1999

Employees
10

Company Location
Sweden
and the U.K.

Spacemetric transforms satellite and airborne raw data to analytics-ready image products. The Keystone Image Management System is a SW data hub handling, processing and serving imagery with rigorous photogrammetric techniques, minimising costs and storage footprint by on-demand services. Spacemetric's Bluestone® gives users, from the ground, on-board data access with low band-width, see https://business.esa.int/projects/docs-2.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Spacemetric delivers image data management systems, transforming raw data into analysis-ready data.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Long experience, for example as following:

- Aggregate Farming in the Cloud (ECSEL);
- European Space Association, often as Lead;
- Innovair, the Swedish national strategic innovation programme for aeronautics;
- SAAB's UAVs and Gripen aircraft.

TECHNOLOGICAL EXPERTISES

- Satellites: Image processing, Payload commissioning, In-flight calibration, and Sensor design & monitoring.
- Archiving solutions, Data hubs / web portals
- Defence forces / integrators
  Sensor ground stations, Modules for data access / sharing
- Airborne: Operator data handling, Web portals, Ortho image production systems, and 3D data production.

MARKETS

- For satellite data, some of our clients are satellite manufacturers and operators.
- Among clients for data archive solutions, data hubs and web portals are found National Space Agencies, national land surveys, and the European Space Agency.
- For defense forces and defense integrators (e.g. SAAB and the Swedish Armed Forces).
- In the airborne segment (deliver to airplane manufacturers and integrators).

LOOKING FOR PARTNERS AND EXPERTISES

Wherever clever satellite and/or aerial image data management is needed we want technology development and new market access. Aims can be develop / include:

- Our Bluestone technology (for selecting on-board data for priority download) to also handle video
- On-board edge computing for de-selecting non-priority data and selecting priority data
- Image data handling in the cloud with low-cost entry costs and full scalability

We encourage partner(s) for R&I applications, looking for new applications, and for increasing market access.

MORE INFORMATION

spacemetric.com

Dag Åsvärn
dag@spacemetric.com

SpiNNcloud

SpiNNcloud Systems GmbH

Created in 2021

Company Location Dresden, Germany

Employees 67

SpiNNcloud is a deep tech spin-off from the Chair of Highly-parallel VLSI Systems and Neuro-microelectronics at TU Dresden. Our highly-parallel computing capabilities empower customers with the third generation of AI-driven systems. SpiNNcloud's technology combines statistical AI with brain-like computing to advance real-time AI applications to unprecedented scale and very high energy efficiency.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

SpiNNcloud provides Chips, Systems, and is active in Applications.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Collaborative:

- ESCADE (more sustainable data centres),
- PRIMI and EVENTS (Improved human-robot interactions),
- MindNET (better harness neuromorphic computing)

Internal:

- FEM and other use cases on SpiNNaker2 chip,
- SpiNNext for AI inference (bare metal, cloud).

TECHNOLOGICAL EXPERTISES

- Chip Design
- Neuromorphic hardware
- Hardware deployment
- Compiler Development
- Deep and spiking neural networks (DNNs and SNNs)

MARKETS

- AI inference
- Neuromorphic computing
- Inference-as-a-service
- Hardware

LOOKING FOR PARTNERS AND EXPERTISES

- Advanced Semiconductor manufacturing AI Model Providers
- Cloud Service Providers
- FEM Software Providers

MORE INFORMATION

spincloud.com

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SPINVERSE

SPINVERSE

Created in
2004

Employees
50

Company Location
Helsinki, Finland
Stockholm, Sweden
Berlin, Germany

Growth through innovation, technology and corporate renewal – Spinverse is the Nordic leader in innovation consulting, specialised in open innovation, arranging funding and commercialisation of emerging technologies. Our 50-person team has coordinated over 2.3 B€ of large scale innovation programs. Since the beginning of H2020, we have helped our customers get more than 420 M€ of EU funding. Knowledge of successful collaborative R&D&I projects is in the DNA of Spinverse.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Private consulting company specialized in open innovation and multi-party project coordination, management, and communication, especially for the whole electronics value chain.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Day-to-day management and/or dissemination and communication management of the following projects:

- ECSEL JU: EuroPAT-MASIP, APPLAUSE
- ENIAC JU: Prominent
- H2020: Smart-MEMPHIS, CEFOW, Stardust, INNPAPER
- BBI JU: PEFerence, VEHICLE, SWEETWOODS
- FP7: IP4Plasma (as a coordinator)

TECHNOLOGICAL EXPERTISES

We can offer effective tools and processes, insights from evaluators as well as technology and sector expertise; we have altogether 12 PhDs with industry background from Electronics, ICT & Security, Health, Bio and Circular economy, Energy and Manufacturing

MARKETS

Spinverse has offices in Helsinki, Stockholm and Berlin. Our focus is in:

- Open innovation
- Management consulting
- Public funding

LOOKING FOR PARTNERS AND EXPERTISES

Need help in building or managing innovation projects? We can improve your odds to get funded and take care of all practicalities in proposal building.

We can help in daily administration and support your project delivering communications, commercialization strategies or business plans. We help you build new businesses through partners, funding & new ideas.

MORE INFORMATION

spinverse.com

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STAM
MASTERING EXCELLENCE

STAM S.r.l.

Created in
1997

Employees
25

Company Location
Genoa,
Italy

STAM is an Italian engineering firm specialized in the high-tech sector which develop turnkey solutions in the following areas: Space & Defence, Security & Transport, Energy & Environment, and Industry & Automation. Since the company establishment in 1997, STAM provides engineering and management services during the overall product life cycle thanks to its set of facilities and capabilities.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

STAM is a system integrator and applications developer.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

To date, STAM has directly participated in more than 50 EU R&D projects from FP4 to H2020.

The following projects concern electronic systems: VALU3S, COGNIPLANT, SHAREWORK, SOFTMANBOT, LIGHTME, ADR1EN, RE4 and STREAM-0D.

TECHNOLOGICAL EXPERTISES

Multiphysics and FEM modeling, design and integration of mechatronic systems, monitoring and control systems, development of IoT solutions, computer vision systems, AI-based software development, risk analysis and LCA tools, design of electronics system for smart metering and energy system automation, power electronics for energy management.

MARKETS

- Automation of assembly lines
- Control of industrial processes
- Safety & Security of industrial plants and automated systems
- Waste management systems
- Asset management
- Energy & Utilities – demand side management

LOOKING FOR PARTNERS AND EXPERTISES

- Equipment manufacturers
- Industrial end-users
- Asset managers/owners
- Energy providers
- Waste managers
- Experts in cyber-security

MORE INFORMATION

stamtech.com

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STEADYSENSE
medical systems

SteadySense GmbH

Created in 2016

Employees 19

Company Location Seiersberg, Austria

SteadySense focuses on smart wireless sensor solutions for medical applications. The key drivers are fast and efficient measurements of physiological parameters, e.g. the temperature, enabling time and cost savings in patient treatment. With the market introduction of STEADYTEMP SteadySense has a fully medically certified thermometer which is used privately but also in hospitals to continuously measure the body temperature of patients.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

SteadySense provides solutions (systems) for medical applications.
We focus on medical device system know-how.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

SteadySense is part of a consortium for an EU funded project SUSTRONICS (under the lead of Philips Medical) in which we we will develop SW for a medical diagnosis platform for home use.

We are in the consortium of SUMEB, applying for EU funding (wearable medical sensor, measuring lactate and glucose, in which we would develop SW for the application).

SOFTMANBOT, LIGHTME, ADRIEN, RE4 and STREAM-OD.

TECHNOLOGICAL EXPERTISES

- Wireless sensor know-how: system requirements and architecture
- Firmware of SoC
- Mobile app development (iOS, Android)
- Backend system software
- Web-app software
- Development flow according to MDR

MARKETS

Medical applications:

- Wearable medical products
- Products for tele-health
- Products for hospital and care centers
- End customer market (direct to consumer)

LOOKING FOR PARTNERS AND EXPERTISES

- Battery technologies for wearables
- Medical sensor technologies
- System integrators for HIS (hospital information system)

MORE INFORMATION

steadysense.at

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SYNANO B.V.

Created in 2017

Employees 5

Company Location Delft, The Netherlands

Synano is a start-up with a vision to become a worldwide provider of nanotech cooling solutions for companies, keen to reduce their energy consumption and/or facing demanding thermal management challenges. Synano develops nano-structured cooling fluids to replace standard coolants in markets ranging from automotive to data centers. Currently active in the R&D of nano-coolants for single and two-phase cooling systems along with nano-scale surface modifications using nanofluids.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Synano develops nano-materials for thermal management of high-power equipment.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Synano participates in various national and European R&D projects as follows:

- ECSEL 'BRAINE' project: developing nano-coolants for thermosyphons for high power density servers
- MG-2020-INEA 'ADENEAS' project: R&D of surface modification using nanofluids for a two-phase cooling system in electric aircrafts
- Dutch MIT-R&D projects: 'Nano-graph' (develop graphene-based nano-coolants) and 'Opti-Rec' (study feasibility of nanofluid use in data center cooling)

TECHNOLOGICAL EXPERTISES

- Formulation and characterization of nanofluids of various types of nanoparticles (carbon-based, alumina) and base fluids (water, ethylene glycol);
- Conductive, convective and boiling mechanisms of heat transport for cooling applications;
- Effect of surface modification with nanoparticles on the heat transfer across the solid-liquid interfaces;
- Experimentation, analytical and numerical estimates, case study.

MARKETS

Nano-material research for cooling applications in fields like:

- Automotives
- Data centers
- Aircrafts
- Solar panels/concentrators
- High power electronics
- Space heating/cooling

LOOKING FOR PARTNERS AND EXPERTISES

- Cooling hardware manufacturers
- High power electronics manufacturer
- Nanomaterial producers
- Thermal management simulation and design consultancy firms
- Organisations focused on energy conservation and CO^2 reduction

MORE INFORMATION

synano-cooling.com

Sana Fateh
info@synano-cooling.com

3R Technical Experts SL (Suigeneris)

Created in 2015

Employees 10

Company Location Madrid, Spain

3R Technical expert SL bases its business on a comprehensive professional service positioning of digitisation solutions for industry and industrial maintenance with the application of new technologies in Industry 4.0. With a focus on digitisation solutions for machinery and the operator and integration with information and analytical systems, including the manufacture of IoT devices for traceability of the entire life cycle of the product.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

IoT manufacturing, embedded intelligence, software monitoring, IA Predictive maintenance

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Participant in H2020 Fast Track to Innovation (FTI) programme and currently participating in PENTA project PLANTAR.

TECHNOLOGICAL EXPERTISES

- Manufacture of mobility devices with miniaturised sensors with incorporation of different wireless telecommunication systems
- Development of AI platform for predictive maintenance, incorporating data from devices and sensors
- Development of a real-time monitoring platform
- Integration of device data into a BlockChain certified traceability platform

MARKETS

- Manufacturing.
- Medical, Pharmaceutics and Health.
- Automobilistic and aeronautical.
- Transport & Logistics
- Livestock & agriculture
- Food and Supermarket

LOOKING FOR PARTNERS AND EXPERTISES

- IA algorithmics development
- Transductors
- Nano-electronics

MORE INFORMATION

isuigeneris.com

Ricardo Rodriguez
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TEK COMPUTING LTD

Created in 2023

Company Location UK

Employees 2

TEKCOMPUTING LTD is a knowledge intensive, technology driven business focused on investing into state of the art computing technology through innovation to be introduced on the market as either product or services.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

We consider ourselves as pioneers in the integrated circuit design domain due to our purpose driven innovation on enabling sustainable design process by observing the fundamentals of circular economy principles.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

The TEK business group was instrumental and initiated the formation of the TEKWebTools PLM consortium which involved organization such as ALLWEB SA, Assist Software Ltd, Open Engineering SA and Kompai Robotics.

TECHNOLOGICAL EXPERTISES

- Opto-electronics/Photonics, sensors
- Artificial intelligence – AI, Advanced Digital manufacturing
- Robotics Quantum computing
- Automotive and autonomous systems

MARKETS

- Consumers electronics
- Software, opto-electronics /photonics and sensors

LOOKING FOR PARTNERS AND EXPERTISES

- Opto-electronics/Photonics, Artificial intelligence – AI
- Advanced Digital manufacturing
- Robotics Quantum computing
- Automotive and autonomous systems

MORE INFORMATION

tek-inc.co.uk

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emmanuel.quarm@tek-inc.co.uk

TeraGlobus
SAVE THE EARTH

TERAGLOBUS

Created in
2017

Employees
7

Company Location
Vilnius,
Lithuania

TeraGlobus is a Lithuanian-based company acting in the field of dissemination and exploitation in numerous EU projects, assisting partners from academia and the private sector to implement and ensure the broadest possible outreach of the measurable project outcomes.TeraGlobus has a team of experts to support engineers and individual inventors in developing international partnerships to advance their technologies from the early stage to the global market.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

TeraGlobus is dissemination, communication and exploitation partner.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

ESCEL JU:

- AI4DI – Artificial Intelligence for Digitizing Industry
- AI4CSM – Artificial Intelligence for Connected Shared Mobility
- ArchitectECA2030 - Full advantage of automation, Electronic Components and Systems (ECS) vehicles through homologation and type approval.
- NewControl - Integrated, Fail-Operational, Cognitive Perception, Planning and Control Systems for Highly Automated Vehicles

TECHNOLOGICAL EXPERTISES

- **Communication expertise:**

The project website, Print material and online tools, Project meetings, Stakeholder management, Design resources and templates, Promotional material

- **Exploitation expertise:**

Exploitation plan, IP management, Stakeholder mapping, Market analysis, and Business models. Exploitation roadmap, Strategic Grant Planning

MARKETS

TeraGlobus has expertise in autonomous vehicles and healthcare sectors, however is interested in collaboration with other markets too.

LOOKING FOR PARTNERS AND EXPERTISES

TeraGlobus is looking for partners whom are willing to coordinate the projects and have project ideas – we support projects from an idea to implementation and act as full partners of the consortium.

MORE INFORMATION

teraglobus.lt

Gintare Marine
info@teraglobus.lt

Tribus-D Ltf

Created in 2016

Employees 2

Company Location Cambridge, United Kingdom

Tribus-D Ltd is a micro SME with over 70 years of combined industrial experience within the Micro-Electronic Manufacturing business. We have specialist knowledge in electronic materials and assembly processes including; chip interconnection techniques, die attach systems, hermetic sealing, encapsulation, adhesives, soldering and laser processing. We offer design and manufacturing consultancy services for all types of electronics assembly and packaging.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Tribus-D covers assembly and packaging processes for micro-electronics .

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Tribus-D has been active in several Innovate UK supported projects, mainly focused on the development of assembly techniques for power electronics modules, investigating miniaturisation, thermal management and recyclability.

TECHNOLOGICAL EXPERTISES

- 3D Interconnect
- Die Attach
- Sintering
- Die Thinning
- Flip Chip Bonding
- Wire Bonding
- Adhesives/soldering
- Over-moulding
- Thermal Management
- Underfill

MARKETS

- Electronic packaging and interconnection
- Automotive, industrial and aerospace electronics
- Si, SiC, GaN semiconductor assembly
- Optics, Sensors, MEMS, ASICs, Power, Hybrids
- Displays, LED lighting
- High temperature electronic packaging
- Energy harvesting
- Wireless interconnect
- Laser processing

LOOKING FOR PARTNERS AND EXPERTISES

- Electronics Manufacturers
- End-Users of High Performance Electronics
- Modelling and Simulation
- Capabilities
- Testing and Inspection

MORE INFORMATION

tribus-d.uk

Steve Riches
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Created in 2010

Employees 10

Company Location Delft, The Netherlands

Ubiqu has revolutionised digital identification by adding the same level of assurance to every digital transaction, as if displaying an ID in person.

The innovation Ubiqu brings is a way to remotely add a hardware- based token to existing mobile phones maintaining the high level of security that hardware provides.

→ Easy to use

→ Level of assurance 4

→ Hardware based and easy to use and easy to scale

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Ubiqu is a secure element provider to larger applications. Examples are; use of a mobile phone as an epassport, edriver license, ebank card, elicense, ecard key or ephysical key.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

- **H2020:** FIDES
- **ECSEL:** Secredas

TECHNOLOGICAL EXPERTISES

- Cryptography
- Crypto protocols
- Secure elements
- Physical Access
- Logical Access
- Authentication, Signing, Decryption

MARKETS

- Banking
- Telecom
- Automotive
- Access
- Identity and Access
- Security
- Defense

LOOKING FOR PARTNERS AND EXPERTISES

- Banking
- Telecom
- Automotive
- Access
- Identity and Access
- Security
- Defense

MORE INFORMATION

ubiqu.com

Boris Goranov
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UNITY-SC / UNITY SEMICONDUCTOR

Created in 2016

Employees 120 - 150

Company Location Grenoble, France

→ **UnitySC is an expert in Inspection and Metrology from Substrate making fabs & all the way through Integrated Device Manufacturer to Advanced packaging fabs.**

→ **State of the art Metrology tools for measuring all aspects of wafer geometry, local & global topography, layer thickness, Infra-Red-Overlay for Hybrid-Bonding, TSV CDs/Depth measurements for 3D-IC process.**

→ **Full wafer defect inspection solution at very high Sensitivity. Backside & Edge metrology inspection. Wafer2Wafer and Chip2Wafer delamination.**

POSITIONING IN THE ELECTRONICS VALUE CHAIN

UnitySC is an equipment supplier, leader in advanced process control, and delivers metrology and inspection solutions that support semiconductor industry's developments from substrate manufacturing to advanced packaging.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

- Horizon 2020-ECSEL, "Opportunity to Carry European Autonomous driviNg further with FDSOI technology up to 12nm node" (OCEAN12)
- Horizon 2020-ECSEL, "Metrology Advances for Digitized ECS industry 4.0" (MadeIn4)
- Horizon 2020-ECSEL, "Technology for the 2nm Node" (IT2)

TECHNOLOGICAL EXPERTISES

- Time & Spectral Domain Interferometry
- White Light Interferometry
- Infra-Red / Visible Imaging
- Deflectometry detection
- Darkfield Scatter detection
- Brightfield Imaging detection
- Polarimetry
- Novel Optical Approaches

MARKETS

- 3D-IC Metrology & Inspection
  - Hybrid-Bonding (W2W & C2W)
  - High-Bandwidth-Memory stacks
- Unpatterned Substrate inspection (all types of materials, Silicon, Compound, Glass, etc)
- Patterned wafer defect inspection
- Power (IGBT / thinned Silicon wafers) MEM's

LOOKING FOR PARTNERS AND EXPERTISES

- Compound Semiconductor Substrate defect inspection & metrology
- Non-contact surface nanotopo metrology
- Through Silicon Via & Trench metrology
- Film-Thickness metrology
- Wafer Bow, Wafer Warp metrology
- Delamination metrology & inspection
- Litho/Etch/Design process modelling

MORE INFORMATION

unity-sc.com

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Created in 2012

Employees 12

Company Location Villebon-sur-Yvette, France

Weeroc is fabless semiconductor company designing and selling analogue and mixed signal integrated circuits. Weeroc has a strong expertise in radiation hardened ICs and photodetectors read-out chain. Weeroc also designs ASICs based on customer specifications.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Weeroc is a fabless chips and systems designer and provider.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Random Power (EU project)

- design of true random number generation system suing quantum phenomena

Retimager (EU project)

- design of a novel real time molecular imager for preclinical and clinical applications. CONAN (ESA ITT)
- design of an electronic circuit breaker for satellite power line.

TECHNOLOGICAL EXPERTISES

- ASIC design
- Single Photon Detection
- Photon Time of Flight
- Low Noise Electronics
- Radiation Hardening
- Analogue Electronics

MARKETS

- Medical Imaging
- Aerospace
- Nuclear Safety
- Scientific Instrumentation
- Homeland Security
- Quantum

LOOKING FOR PARTNERS AND EXPERTISES

- Space system or module manufacturers
- LIDAR manufacturers
- Photodetection system manufacturers
- Quantum system manufacturers

MORE INFORMATION

weeroc.com

Julien Fleury, president
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Created in
2024

Employees
7

Company Location
High Tech Campus, Eindhoven, Netherlands

WeNet is a startup based in High-Tech Campus in Eindhoven, the Netherlands, specialized in AI-enabled adaptive wireless solutions. The mission is to provide hardware/software solutions for reliable and real-time wireless connectivity within and between high tech devices. This empowers high-tech industries to operate smarter, safer, and more flexibly in complex industrial settings.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Architecture and Systems for AI-driven industrial wireless connectivity.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Involved in NL supported R&D projects MIT RoboNetCare and MIT UWBInside, and European Interreg project CAMoRo.

TECHNOLOGICAL EXPERTISES

- Hardware and Software design for industrial wireless systems
- AI-driven wireless network architecture and real-time optimization.
- Multi-protocol connectivity devices for mobile robots (5G/6G, UWB, WiFi, BLE).
- Digital twin framework for network performance telemetry, monitoring, and analysis.
- Plug-and-play integration for sensors and actuators.
- ML-based proactive network configuration.

MARKETS

- Industrial automation and high-tech systems
- Mobile robots (logistics, agriculture, healthcare)
- Semiconductor and manufacturing equipment
- Automotive and smart mobility systems
- Medical and healthcare devices
- Intra-device wireless communication
- Industrial IoT and connected systems

LOOKING FOR PARTNERS AND EXPERTISES

- Industrial system integrators and robotics companies
- Wireless communication and RF technology providers
- Semiconductor and high-tech equipment manufacturers
- Embedded systems and real-time software developers
- Testbeds and validation partners for industrial environments

MORE INFORMATION

www.wenet.ai

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YONGATEK Microelectronics R&D

Created in 2014

Employees 53

Company Location Istanbul, Turkey

Yongatek Microelectronics is a high-tech company operating in highly demanding industries worldwide. Its mission is to be one of the few global brands to develop technology in Semiconductor IC/ASIC/SoC/Chip Design, 5G/6G and Satellite Communications, Video Processing and IoT. Yongatek Mikroelectronics develops special solutions and turnkey projects in cooperation with universities and institutions.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Chips, Applications, Architecture, Equipment, Systems.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

Yongatek Microelectronics provides a wide range of end-to-end solutions in

- FPGA and ASIC Design
- DO-254 Compliance and UVM Verification
- H264/H265 Video Codec
- Video and Image Processing
- 5G/6G and Satellite Communications
- IoT and Edge Computing

TECHNOLOGICAL EXPERTISES

- FPGA and ASIC Design
- DO-254 Compliance
- UVM (Universal Verification Methodology)
- H264/H265 Video Codec
- AI Based Video Processing Algorithm Dev.
- Electro Optic Platforms and sensors
- RISC-V / ARM Microprocessors
- LDPC, Turbo, Polar Encoder/Decoders
- 5G/6G RRU IP and SoC Developments
- Embedded Systems
- Edge Computing

MARKETS

- IC/ASIC/SoC/Chip Design,
- 5G/6G Communication
- Satellite Communications,
- Video Processing
- IoT

LOOKING FOR PARTNERS AND EXPERTISES

- SoC Chip Design and Verification
- Avionic and Space developers
- Video Processing
- RISC-V Microprocessor and IP Development companies
- IoT and Edge Computing Sensor developers
- 5G/6G and Satellite Communications

MORE INFORMATION

yongatek.com

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zoundream

Zoundream AG

Created in
2019

Employees
13

Company Location
SIP Basel Area AG, Lichtstrasse 35, 4056 Basel, Switzerland

At Zoundream, we use AI, machine learning, and sound recognition to analyze and translate newborns' cries. Our technology not only translates cries in real time (e.g., hungry, sleepy) but, most importantly, aims to support the identification and diagnosis of potential newborn pathologies and developmental disorders, enhancing the well-being of families worldwide.

POSITIONING IN THE ELECTRONICS VALUE CHAIN

Zoundream is considered a software provider having developed a solution scalable to any hardware with a microphone.

RD&I COLLABORATIVE INNOVATION INVOLVEMENT

1. Initial pilot with Generali that shaped our cry analysis algorithm.
2. Clinical research collaboration with the neonatology unit of Hospital Clinic Barcelona, recently publishing a scientific paper.
3. Collaboration with Kolob Autismo Peru, where we study high-risk infant's cries for early autism diagnosis.

TECHNOLOGICAL EXPERTISES

- AI
- Machine learning
- Sound recognition
- AMSI
- Largest cry dataset in the world
- Hardware scalability
- Cry Translation
- Cry Detection

MARKETS

- Health-tech
- Baby monitors

LOOKING FOR PARTNERS AND EXPERTISES

Zoundream is looking for corporate partners as well as hospitals, scientific and clinical research partners.

MORE INFORMATION

zoundream.com

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Innovation | Create | Shape | Impact

Community | Network | Influence

AENEAS is an Industry Association promoting RD&I in Electronic Components & Systems (ECS) to strengthen European competitiveness along the complete ECS value chain. AENEAS federates all RD&I players, from large industrial companies, Small and Medium Enterprises, research organisations and Universities.

AENEAS represents its members in the Key Digital Technologies Joint Undertaking (KDT JU) the Public-Private Partnership for the ECS Value Chain. AENEAS is also operating the Xecs - a Cluster under the new Eureka Clusters Programme. Building on the highly successful PENTA and EURIPIDES² programmes, the Xecs Eureka Cluster is driving sustainable digital transformation in Electronic Components and Systems and their application areas.

09/09/2026

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Xecs Penta EURIPIDES²